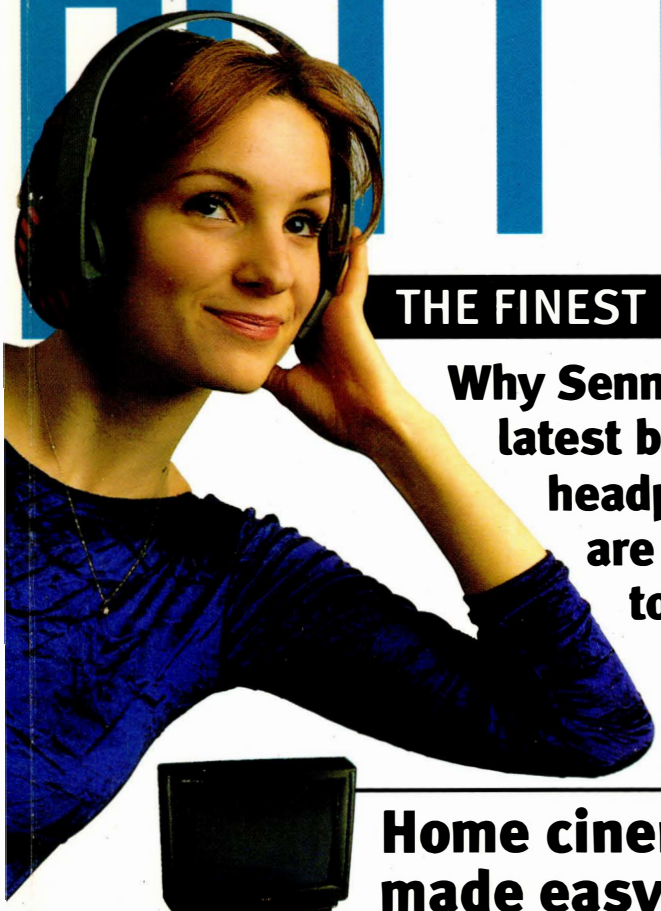
WIN! WIN! GREAT PRIZES! ORELLE HI-FI WORTH £3,000! WIN! WIN!

HI-FI CHOICE

THE FINEST HI-FI MAGAZINE IN THE WORLD



Why Sennheiser's latest budget headphones are the ones to beat, page 65

CD-R vs MD vs DCC vs Super DAT

Our experts tell you the best new digital recorder to buy, page 58



Home cinema made easy — Toshiba's Dolby Pro Logic TV on test



TESTED: 8 TOP CD COMBOS

We pick the best two-box CD players

EXCLUSIVE

We take Sony's 100 disc CD changer for a spin



THE UK'S DEFINITIVE HI-FI CATALOGUE

Buyer's GUIDE

Comprehensive listing of over 3,000 products ✸ 800 models tested and rated ✸ 32 pages of specifications and data, see page 87



AUGUST 1994 £2.95 US $6.95

9 770955 111007 08

DESERVES
CLOSER INSPECTION



NAD 302. European Amplifier of the Year '93-'94

"An amazing design which can bring true Hi-Fi performance to those unable, or unwilling, to spend a fortune."

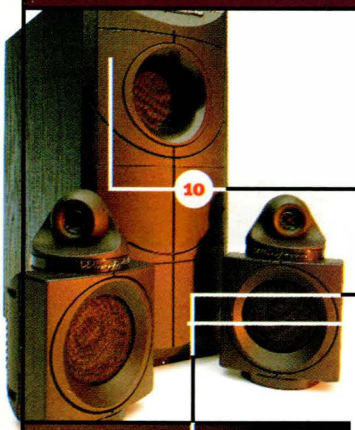
NAD

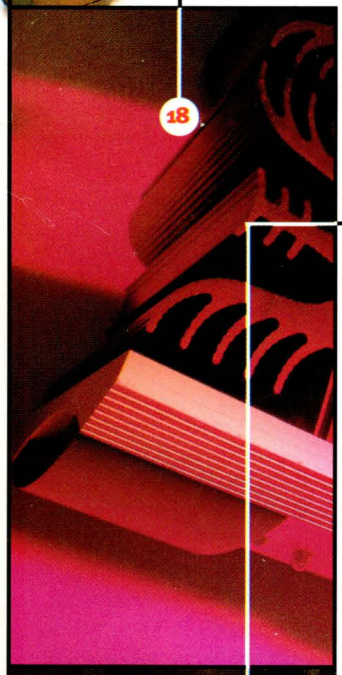
BRITISH BY DESIGN

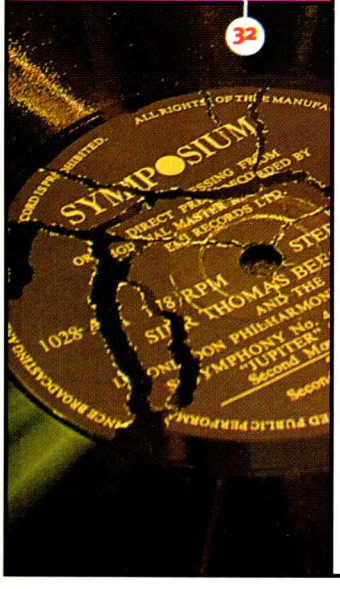
NAD MARKETING LTD. NAD BUILDING, 401-405 NETHER STREET, LONDON N3 1QG. TELEPHONE 081-343 3240

CONTENTS

August 1994 No. 133







The Front End

4 Update
Read all about it! All that's new in the world of hi-fi.

10 Sessions
A stonking line-up; something for all from tellies to speakers.

18 Statements
£6,000 Tannoy Studio Monitors and a shiny amp from Musical Fidelity.

23 Help!
In need of assistance? We offer a light at the end of the tunnel.

29 Write On
Rant, rave and look extremely groovy in a *Choice* sweatshirt.

32 Aspirations
Blumlein heck! We visit the son of the father of stereo.

38 Competition
Prize possessions — £3,000 of Orelle hi-fi up for grabs.

Columns

2 Edit Point
Simon's last stand and a Chinese *Choice*.

31 21st Century Fox
Frank and to the point, Barry says what he thinks.

152 Personal Messages
Paul falls in love — looks like there's a new Audiolab amp.

The Reviews

44 Two-box CD players
Paul Miller looks at the latest summer combinations.

58 Digital Recorders
The digital formats line up for a critical comparison.

65 Headphones
Alvin does the can-cans again.

Choice Matters

37 Coming Up
An action-packed September issue. You shall have music where ever you go.

41 Subscriptions
Get *Choice* on your mat.

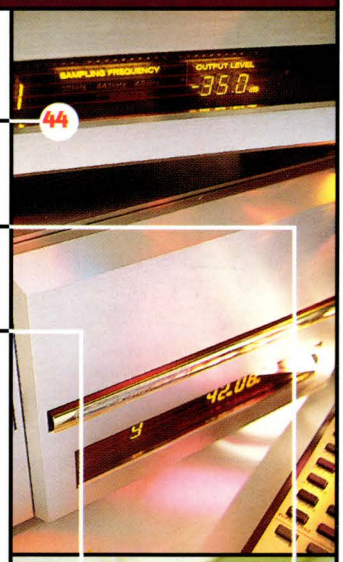
81 Reader Classifieds
A chokka page of small ads.

82 Reader Offers
Quality bits and bobs to buy.

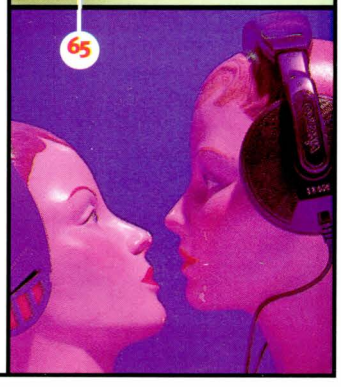
Buyer's Guide

87 The Hi-Fi Choice Buyer's Guide
If its hi-fi and it's in the shops, it's here. The most comprehensive guide you can buy.

123 The Hi-Fi Choice Directory
All products previously tested by *Choice* and still current appear here.







Best Buys and Recommendeds

Products that make the grade are awarded *Hi-Fi Choice's* unique Best Buy or Recommended accolades. This sets them apart as being capable of a higher standard of fidelity than average at a particular price.

A product carrying the **Best Buy** swing tag is significantly better than the alternatives in its price band. It is of excellent quality and very good value for money. Watch out for this logo. It is your guarantee of quality.

Recommended products are also very good, but not quite in the same league as Best Buys. Despite being runners up, they are definitely worth considering, as they may prove more compatible in some systems.

EUROPEAN AWARDS PANEL
MEMBER OF THE EUROPEAN IMAGING AND SOUND ASSOCIATION

ISSUE 133 AUGUST 1994

EDITORIAL
FAX: 071-323 3547
Editor Simon Davies
Consultant Editor Paul Messenger
Art Editor Asim Syed
Deputy Editor Jason Kennedy
Production Editor Lisa Nickson
Reviews Editor Alan Sircom
Contributors Richard Black, Paul Fisher, Barry Fox, Alvin Gold, Jimmy Hughes, Paul Miller, Rob Tribe.
Photography Chris Richardson

ADVERTISING
TEL: 071-631 1433 FAX: 071-636 1640
Group Advertisement Manager Phil Jennings
Advertisement Manager Rob Debenham
Sales Executives Marcella Smith, Jennifer Phillips

PRODUCTION
TEL: 071-631 1433 FAX: 071-580 6430
Group Production Manager Simon Maggs
Deputy Group Production Manager Mike Robinson
Advertisement Production Robin Ryan

CIRCULATION & PROMOTIONS
TEL: 071-631 1433 FAX: 071-636 5668
Circulation Director Sean Farmer
Circulation Manager James Burnay
Mail Order Manager Julia French
Marketing Manager Paula Nulty

Publisher Andy Benham

DENNIS PUBLISHING LTD
Publishing Director Bruce Sawford
Managing Director Alistair Ramsay
Chairman Felix Dennis

Published by Dennis Publishing Ltd, 19 Bolsover Street, London W1P 7HJ. Tel: 071-631 1433
Company registered in England.
Origination by those nice people at Graphic Ideas Studios.
Printing by Riverside Press, St Ives Plc.
Distribution by SM Magazine Distribution, 6 Leigham Court Road, Streatham, London SW16 2PG. Tel: 081 677 8111

Dennis

A DENNIS PUBLICATION

PRODUCTS AND EDITORIAL SUBMISSIONS
Hi-Fi Choice welcomes all information on new and upgraded products and services, for possible coverage within the news and reviews pages. However, the publisher respectfully points out that the magazine is not obliged to either review or return unsolicited products. The editor is always pleased to receive ideas for articles, preferably sent first in outline form, with details of the author's background, and — where possible — samples of previously published work. He cannot, however, accept responsibility for unsolicited copy and would like to point out that it may take time for a reply to be sent.

PERMISSIONS & REPRINTS
Material in *Hi-Fi Choice* may not be reproduced in any form without the written permission of the publisher. Please address any such requests for re-use of copyright material to Andy Benham, 19 Bolsover Street, London W1P 7HJ.

SUBSCRIPTION ENQUIRIES
Hi-Fi Choice is available on subscription. The standard rates are (UK) £25.00 (1yr), £42.50 (2yr); rest of Europe £30.00 (1yr), £68.00 (2yr); rest of world £51.50 (1yr), £84.50 (2yr). Please address all subscription enquiries to *Hi-Fi Choice* Subscriptions, Tower House, Sovereign Park, Market Harborough, Leicestershire LE16 9EF, or telephone (0858) 468888. Back issues of the magazine are also available. Please refer to page 85 for full details of how to obtain copies

THE GET OUT CLAUSE
While every care has been taken in the preparation of this journal, the publishers cannot be held responsible for the accuracy of the information herein, or any consequence arising from it. Readers should note that all judgements have been made in the context of equipment available to *Hi-Fi Choice* at the time of review, and that 'value for money' comments are based on UK prices at the time of review, which are subject to fluctuation and are only applicable to the UK market.
This edition © 1994 Felden Productions, ISSN No. 0955 111 5.
Member of the Audit Bureau of Circulation.

HI-FI CHOICE

EDIT POINT

Clearly, a better Choice

After over a year in the hot seat, the time has come for me to hand over the reigns of *Hi-Fi Choice* to my colleague on *Home Entertainment*, Stan Vincent, as I move on to pastures new.



The past 14 months have seen some remarkable developments in the world of hi-fi. Top quality separates have become ever more affordable, while the movement towards better home-cinema systems has led to many specialist hi-fi companies entering the arena and broadening both the quality and scope of combined hi-fi and audiovisual products.

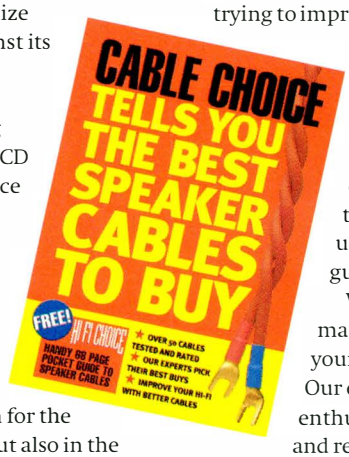
We have also seen the coming of age of MiniDisc with the second generation players from Sony (see page 58 for a full test of Sony's new full size domestic machine pitched against its digital competition), while both Pioneer and Matsushita (Panasonic/Technics) are talking about the possibility of a 'super' CD format to extend the performance envelope of replay-only CD systems.

The development of new technologies has stimulated interest in hi-fi not only in the UK (the circulation of *Hi-Fi Choice* has risen to an all-time high of 30,048 copies per month for the period July to December 1993) but also in the emerging markets of the Far East. To cater for this new market, the first Chinese edition of *Hi-Fi Choice* has just been published, bringing the acknowledged strengths of the *Choice* test procedure to a population eager for fair and impartial buying advice.

The publishers of *Hi-Fi Choice* (China) were hugely impressed by our blend of solid technical testing allied to independent subjective assessments of hi-fi components by a totally impartial 'blind' listening panel. They quickly recognised the strength of this formulation, and we are happy to supply them with our findings for hi-fi enthusiasts in the emerging markets of China and the Far East.

We are also happy to supply them with solid buying advice that is often unavailable elsewhere. Our loudspeaker cable supplement given away free with this edition of *Choice* is a case in point. We never lose sight of the fact that quality hi-fi is as much a matter of getting the little points right as choosing the best kit.

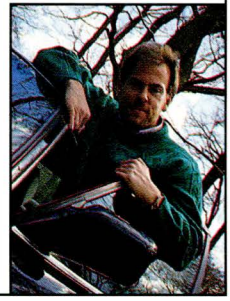
Speaker cables are vital to the well-being of any hi-fi system but the choice available is quite bewildering.



Enter *Cable Choice*. This handy pocket-sized guide to the best speaker cables on the market offers invaluable advice to anyone trying to improve the sound of their system without changing major components. Whether you are upgrading from supplied cables or changing add-on cables that have outlived their usefulness, this is the guide you need.

Whatever the subject matter, let *Hi-Fi Choice* be your guide to better sound. Our experts are music enthusiasts first and foremost and recognise that, whatever the budget, *Choice* readers are looking for reliable and consistent advice. That policy will continue and develop under Stan and the *Choice* team, making this magazine *the* publication for music lovers who care about quality. It's been a great year and it's going to get better.

Simon Davies



MUCH MORE THAN YOU BELIEVE

The dynamic new AV speaker series from Celestion is, literally, unbelievable.

The 'Little 1' surround speaker, 'Centre 2' centre channel speaker and 'CSW powered subwoofer' are the obvious speaker choice for those who demand hi-fi speaker performance and are passionate about design and style. Each model .... a masterpiece. Together ....

much more than you'll believe.



70 Years Of Sound Innovation

CELESTION

CINEMAstyle

For further information and your nearest stockist call Celestion on 0473 723131

UPDATE

Choice news from around the world

Go with Goertz

The unique Goertz cable from America is now available in the UK. The importer, Townshend Audio, claims this impedance-matched cable will transform even the most humble hi-fi system.



Goertz, it's terephtalate tastic dude.

Goertz cable is designed to be impedance matched to the loudspeaker. Unlike typical cables whose impedances vary between 600hms and 4700hms, Goertz claims an impedance of four ohms.

According to transmission line theory, if there is a dramatic impedance mis-match at the termination of a speaker cable, the signal will reflect back upon itself. Popular audio opinion is that this theory has never been significant at audio frequencies; however, Townshend suggests that the sound of Goertz proves otherwise.

Goertz is made from two solid ribbon conductors, each jacketed in a polyester terephtalate dielectric. These are sandwiched together and sheathed in Lexan. Goertz is available in two sizes: 10mm by 1mm *MI 1* and 20mm by 1mm *MI 2*. *MI 1* costs £20/m and *MI 2* is £40/m in copper, while the silver versions cost £256 and £475 per metre respectively.

Because such a low impedance results in a highly capacitive cable those with Naim amplifiers, or other designs that find high capacitance cables problematic, such as will need to use a termination unit, (an additional £87).
☎ (0784) 455866

Roll out the Technics'

Following on from last month's cassette and CD multi-changer announcements, Technics is launching another truck-load of new hi-fi components in time for the Autumn.

DCC is still in the frame, with the new £400 *RS-DC8* home deck plus a £1000 *SC-CH909D* component mini system. There's also a strikingly elegant slimline 'lifestyle' type audio system which is unusual in incorporating a completely new kind of signal source. A built-in ROM memory replays various sound effects, simulating the background sounds of beach, babbling brook or forest environments. Instant ambient house or what!

The *SL-PG360A* and *SL-PG560A* are full-feature budget CD players at £140 and £180 respectively. The *SL-PG360A* is a 'player on a chip' design, a cost saving feature that's claimed to enhance sound quality. The *SL-PG560A* has a four-DAC MASH converter and full remote control plus shuttle search.

There are two new budget amplifiers, the 40W £150 *SU-V300* for hands-on use and the 50W £180 *SU-V500* with remote volume control and input selection. Both are full feature devices with Technics' 'New Class A' circuitry.

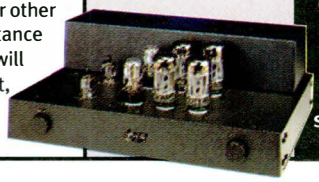
The *ST-G350* is the new £140 budget tuner. It can memorise 30 stations across FM and AM bands, has a rotary style tuning knob, and may be remotely controlled if used with the *V500* amp. ☎ (0344) 862444



The *RS-DC8* incorporates Super-Advanced MASH D/A conversion and a new tape transport mechanism to get the best from your DCCs.

What an Arion

Eos and *Elektra* (no relation to Musical Fidelity's namesake) are the first two valve amps from Northern Ireland-based manufacturer Arion Acoustics, priced at £899 and £999 respectively. The *Eos* is a power amp with volume control and the *Elektra* is a line-level integrated amp. Both are rated at 18W/channel, use 5881 pentode output valves and are built with top quality components such as Audio Note-designed transformers and Rhodestein capacitors. There's also a mains filter, the £125 Titan, plus a range of cables.
☎ (0868) 748632



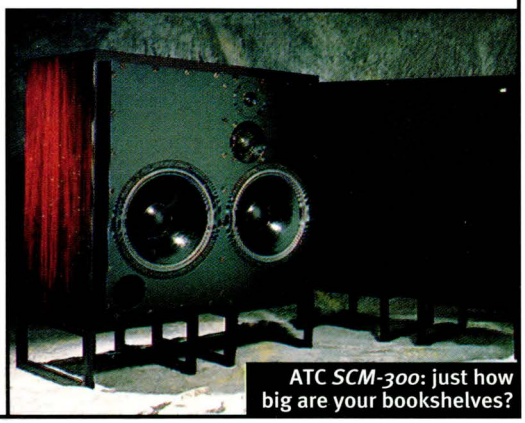
Arion's chunky *Eos* power amp has a volume control for single input purists.

ATC's heavyweight

Speaker builder ATC, practitioner in both hi-fi and pro-audio, has pre-sold a number of its new giant studio/domestic monitors (no home should be without a pair — Dep Ed), before production is properly under way.

The *SCM200* and *SCM300* have been available with an electronic crossover for some years. Now the full active drive packages are being introduced, at £10,995 and £11,995 respectively, each with four power amplifiers delivering 850W per channel. Combine this with equivalent sensitivities of 91dB/W and 94dB/W and we're talking seriously realistic loudness levels.

Twin 12in/15in bass drivers are loaded by massive and capacious 'soffit' style (for studios) ported enclosures.
☎ (0285) 760561



ATC *SCM-300*: just how big are your bookshelves?

Pioneer fits Dolby S on five new decks

Five out of a total of seven new Pioneer cassette decks now feature Dolby S, the latest high performance noise reduction system.

The two least expensive models don't qualify for the S treatment, but the £170 *CT-S330* single and £180 *CT-W503R* twin decks are still well supplied with useful features.

But the real S-type price-buster is the £199.95 *CT-S430S*, which brings Dolby S-type noise reduction to the sub-£200 sector for the first time. Cassette dubbers can also now enjoy low noise recordings at a modest price too, with the £230 *CT-W603RS* twin deck machine.

Moving up to £300 brings some enticing extra features in both single and twin deck configurations. The *CT-S630S* single deck has a three-head transport for instant off-tape monitoring, whereas the *CT-W603RS* twin features remote control operation.

Finally, the £500 *CT-S830S* incorporates many of the top features previously only found in the ongoing flagship *CT-95*, yet costs only half the price of that model.

☎ (0753) 789500



Pioneer brings Dolby S to the masses with low-cost recorders and high-end machines in five of its septet of new analogue cassette recorders.

Baby boomer

Mordaunt-Short's award winning *MS10* loudspeaker now has a baby brother: the £109.99 *MS05*. Described as an ultra compact design, the *MS05* consists of a 100mm MCS (moulded cone and surround) mid/bass unit and a 10mm tweeter, mounted on an injection moulded baffle.

A reflex design, the *MS05* has front firing ports which means that it is suitable for wall or shelf mounting. Among the speaker's key features are the use of a minimalist first order crossover, a phase plug where a dust cap would normally be colouring the aural picture, and last but most important a claimed 'design focus' on musical performance.

The *MS05* was created with the aid of CAD (computer aided design) and 'many hours of critical listening'. ☎ (0705) 407722



Are small ones really more juicy? Just ask Mordaunt-Short.



The latest Thule kit — Danish amps and DACs from Essex.

Power Thule

Europe is a big place, so it's never surprising to learn of a new Continental brand making a play for the UK.

Essex-based Virtual Reality Audio Systems is distributing the Danish Thule (pronounced Tooler) range of mid-priced electronics, and *Hi-Fi Choice* has already carried out a quick check on the £599 *IA50* integrated amplifier (Sessions, issue 131). The more powerful *IA100* costs £899, while the £799 *DAC200* will convert your CD digits to analogue.

Key features include minimalist and symmetrical circuitry with balanced connection options and it's expected that the range will expand to encompass separate pre-/power amps and CD transports in the future.

☎ (0277) 227355

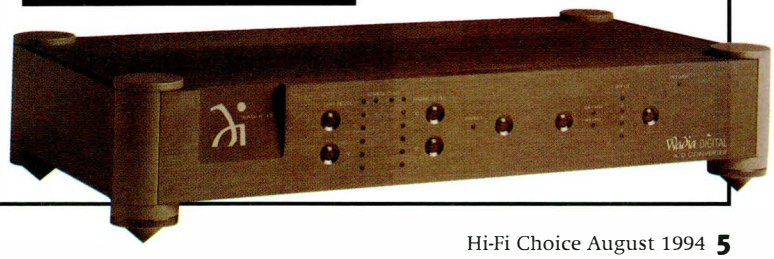
Seven grand for a CD player? Wadia on about?

Although it's a lot less expensive than some of the company's earlier CD disc drives and DACs, Wadia's new type *16* CD player still costs an extraordinarily extravagant £7,375. It comes complete with on-board DAC, digital volume control and bristles with inputs and outputs. The *16*'s disc drive mechanism, based on a new Teac CMK-3 drive, is available without the DAC as the model *20* transport (£4,370).

Wadia also has a new analogue-to-digital converter (ADC) unit, code named model *17* and priced at £3,545. The idea is to use this in place of a conventional preamplifer to digitise all the analogue sources of a system, passing the digits on to the model *16* CD player.

☎ 081-840 6305

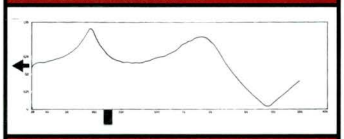
This is Wadia get for £3,545? The new model *17 ADC*.



IN BRIEF

Platform 7 is the curious name of a Wembley-based company which is launching an isolation platform called — you've guessed it — Platform 7. Made from marble composite, it weighs 10-12kg, costs less than £50 and is intended to substitute for the top boards in equipment supports, providing extra immunity from vibration. And of course it's green.
☎ 081 904 2646

Gremlins infected our review make-up last month (issue 132), causing the wrong impedance graph (but the correct caption) to appear on our review of the **Impulse** H6. The correct graph is shown below.
☎ 081 769 5726



Breaking with its *Hardcore* solid-core tradition, **Path Premier** is adding new *Superstrand* multi-conductor speaker cables to the popular IXOS range.

At £1.99/m, *Superstrand 603* is a two-conductor flat profile cable, while the £5/m *Superstrand 604* carries four conductors (for bi-wiring), all housed within a round-section sheath.
☎ (0494) 441736

Quantum Audio has begun manufacturing the £900 *Minstrel* amplifier, a hybrid valve/transistor, line-level integrated, zero feedback design which has classically simple lines but top quality components and finish. The ultra-linear valve output delivers 20W (8ohms) when fitted with 6L6 valves, and 30W using EL34s.
☎ (0563) 71122

Maxell is launching a new range of DAT (digital audio tape) tapes featuring an improved hub lock mechanism, and anticipates adding the first ever three hour running time tape (*DAT 180*) soon.
☎ (0923) 777171

Hama has two new ranges of headphones, priced from £1.99 up to £34.99, the budget Star Line being ultra-lightweight designs ideal for portable applications.

The more expensive Studio Line are bulkier but have extra foam cushioning — just like the L'Oréal hairdressing namesake. Also new, the £12.9 9 *MB 20* pocket-size mini-speakers are intended for connection to personal stereos, and hence are fitted with jack sockets.
☎ (0256) 708110

Here's what the UK's leading publications have to say about the new Q Series.

Q10

"ALL ROUND THE USER-FRIENDLY Q10s LOOK LIKE WINNERS FOR KEF - AND MUSIC LOVERS SHORT ON SPACE."

What Hi Fi?, February 1994

Q30

"WHERE THE KEFs REALLY SCORE IS IN THEIR ABILITY TO BRING EVERY SEGMENT OF THE MUSIC TOGETHER IN A HIGHLY INVOLVING MANNER."

What Hi Fi?, February 1994

Q50

"THE OPENESS, CLARITY AND SPEED OF THE Q50... MAKE IT PRE-EMINENT OF ITS TYPE."

Alvin Gold, Audiophile, June1994

Q70

"...THE Q70s WILL DELIGHT YOU WITH THE SHEER TOGETHERNESS OF THEIR MUSIC MAKING."

What Hi Fi?, June 1994

SEE YOUR NEAREST DEALER FOR A DEMONSTRATION.

ABERDEEN	
HOLBURN HI FI	0224 585713
ALLOA	
McMICHAEL BROTHERS	0259 724230
BIRMINGHAM	
MUSIC MATTERS	021 429 2811
(3 BRANCHES IN WEST MIDLANDS)	
BLOXWICH	
SOUND ACADEMY	0922 473499
BRISTOL	
RADFORD HI FI	0272 428247/8
(7 BRANCHES IN THE SOUTH WEST)	
CARDIFF	
AUDIO EXCELLENCE	0222 228565
(4 BRANCHES IN THE SOUTH WEST)	
CHELTENHAM	
SEVENOAKS	0242 241171
(12 BRANCHES IN THE STH & MIDLANDS)	
COLWYN BAY	
ELECTRO TRADER	0492 548932
CREWE	
NORMAN AUDIO	0270 211091
(ALSO IN LANCASHIRE)	
CROYDON	
ZEBRA	081 688 2491
EDGWARE	
MUSICAL IMAGES	081 952 5535
(ALSO IN HOUNSLOW)	
EDINBURGH	
IN HI FI	031 225 8854
GLASGOW	
BILL HUTCHINSON HI FI	041 204 4433
(5 BRANCHES IN THE NORTH)	
GUERNSEY	
MELODONIA	0481 56647
GUILDFORD	
P J HI FI	0483 504801
HUDDERSFIELD	
READYVISION	0484 532294
JERSEY	
BASE HI FI	0534 58518
KNUTSFORD	
WILMSLOW AUDIO	0565 650605
LEEDS	
AUDIO PROJECTS	0532 304565
LEICESTER	
LEICESTER HI FI	0533 539753
LONDON	
HI FI EXPERIENCE	071 580 3535
K J LEISURESOUND	071 486 8262/3
AUDIO CONCEPT	081 567 8703
MANCHESTER	
D & T ELECTRONICS	061 445 2694
NEWCASTLE	
J G WINDOWS	091 232 1356
NEW MALDEN	
UNILET	081 942 9567
NOTTINGHAM	
NOTTINGHAM HI FI	0602 786919
OTLEY	
DOUG BRADY HI FI	0943 467689
PETERBOROUGH	
THE HI FI COMPANY	0733 892231
(ALSO IN LEAMINGTON SPA)	
READING	
B & B HI FI	0734 583730
(5 BRANCHES IN BERKS/BUCKS)	
SHEFFIELD	
SOUND WITH STYLE	0742 737893
(ALSO IN DONCASTER)	
SHREWSBURY	
CREATIVE AUDIO	0743 241924
SWINDON	
AUDIO T	0793 538222
(7 BRANCHES IN THE SOUTH)	
ROCHDALE	
JOE KOCZUR	0706 42107
THAME	
THAME AUDIO	0844 215431
TWICKENHAM	
RIVERSIDE HI FI	081 892 7613
WILMSLOW	
SWIFTS OF WILMSLOW	0625 526213
WORTHING	
PHASE 3	0903 245577

THIS DOES NOT CONSTITUTE A FULL DEALER LIST. FOR A COMPLETE DEALER LIST PLEASE CONTACT KEF ON **0622 672261.**

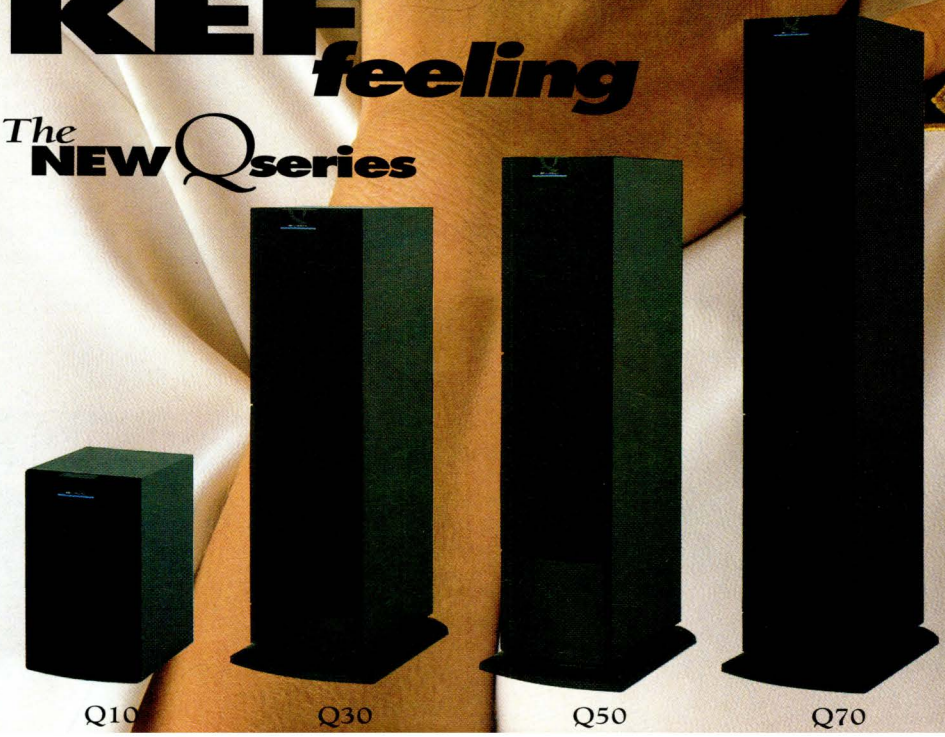
KEF

The experience of sound

KEF and Uni- Q are registered trade marks. Uni Q is protected under GB Patent 2 236929 - worldwide patents pending.

It's that **KEF** ***feeling***

The **NEW Q series**



Goodmans loudspeakers are dressed to kill — in rosewood



Goodmans Loudspeakers Ltd (GLL) has upgraded its loudspeaker range and introduced a rosewood veneer as one option in its range of finishes. The £119.95 Maxim, £159.95 Mezzo and £199.95 Magnum models have new woofers and refined crossovers with higher grade components.

In addition the Mezzo has grown a compliance ring cone and the Magnum has been working out — its cabinet now features extra bracing. ☎ (0705) 492777



Born in the USA, bred in Muswell Hill.

You got it! Home Alón

You want the convenience and compactness of a decent quality mini system, but can't come up with the whole £1,000 in one hit? Denon may have just the thing.

The company's new *D-F10* is a mini system. It's also a collection of separate mini components that may be purchased separately, yet which still offer remote control and the simplicity of interactive operation when linked together as a system.

The full four-component package is priced at £1,000, with optional partnering speakers for an extra £150. However, the individual components are priced between £240 and £280, more than Denon's budget full-width separates.

Except for the real red mahogany speakers, each component is finished in Denon's attractive champagne silver, and there's a refreshing absence of button clutter. The system remote handset comes with the 2 x 50W amp, the tuner has RDS for station identification, and the single cassette deck has a horizontal loadingtray. Additional components (a CD changer and surround processor) are said to be in the pipeline. ☎ (0753) 888447



Have a champagne lifestyle, try the Denon *D-F10*.

Sound Image Ltd of Muswell Hill is importing the Acarian Systems speakers from the USA. Designed by Carl Marchisotto, who was with Dahlquist for many years , the *Alon 1* is a compact floorstanding three-way with open baffle mounting for midrange and tweeter, and is expected to sell for £1,300. ☎ 081 807 8006

DPA top DAC

DPA has launched its top of the range, £6,000 *PDM ten twenty-four* digital-to-analogue converter. Big brother of the *PDM 256* (page 47), the *PDM 1024* features DPA DX128 processing (128 times digital filtering), allowing for a simple analogue stage, containing two resistors, two capacitors and a balanced DPA op-amp.

The *PDM 1024*'s casework reflects its price, being built from gold plated 3mm copper plate, with more inputs and outputs than you can shake a clutch of digital interconnects at.

The £495 *DSP200*S phono stage, switchable for MM or MC cartridges and utilising DPA's DHOA32 hybrid op-amps is also new. ☎ (0222) 795621

IN BRIEF

Korean giant **GOLDSTAR** is introducing a new micro system, the two-piece £170 *FFH 100L*, which combines CD and 3-band tuner sources with a 4W/channel amplifier. Cassettes are not accommodated. ☎ (0753) 691888

Accessory maker **BIB** is launching a battery powered, motorised CD cleaning machine at a very tempting £14.99. ☎ (0442) 233233

European turntable maker **PROJECT** has introduced a number of improvements on its top model. After changing the suspension, damping, mat and arm wiring, the Pro-ject *6.1* still costs £435. A 78rpm adaptor to fit all Pro-ject turntables is now available for £10. ☎ (0753) 889949

Hounslow and Edgware AV retailer **MUSICAL IMAGES** is raising £1,000 a month for Save The Children charity by combining donations from customers with those from suppliers and the shops themselves. It hopes to reach a £10,000 target by *Live 94*. ☎ 081 952 5535, 081 569 5802

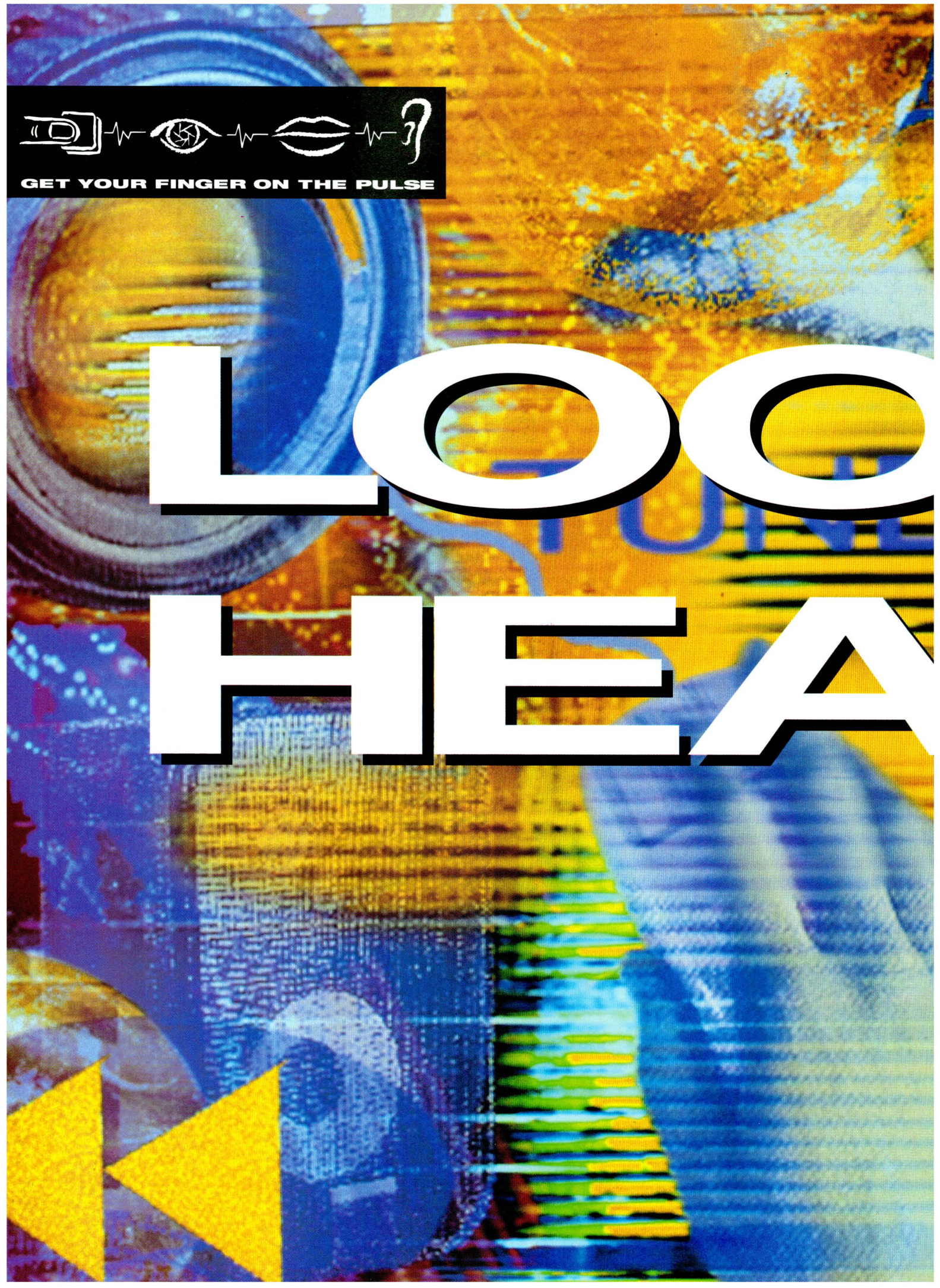
Celebrating the nine hundredth anniversary of the cathedral namesake, **CASTLE** has introduced an alternative version of the popular compact *DURHAM* speaker. The £299 *Durham 900* is re-voiced and re-balanced to give a more open and explicitly informative sound, and to balance better when placed close to walls. ☎ (0756) 795333



A perfect speaker for anthems and psalms — the *Durham 900*.

PEDESTAL is a bespoke audio furniture specialist which uses native hardwoods and carved hamstone to produce stylish and sonically isolated platforms for your kit. The isolation side of the equation is taken care of by sorbothane mounts. Pedestal also produces matching CD racks. ☎ (0460) 242310

FARADAY SOUND,the concrete loudspeaker specialist, is looking for someone to inject a bit of business acumen. Critically successful but commercially underdeveloped, Faraday is run by Peter Walters in Norwich. Anyone interested in putting a toe in the audio water should contact Peter on: ☎ (0603) 762967


GET YOUR FINGER ON THE PULSE
LOO
HEA



Take your senses for a trip to LIVE '94, the UK's most exciting consumer electronics event.

See the latest hi-fi. TV. Video. Computers. Games. Camcorders. In-car. Musical instruments. Cameras. Telecoms. Satellite. Home automation.

Experience Capital Radio Live at LIVE. Capital Gold concerts. Dolby Home Cinema Promenade. Real Hi-Fi Village. TV Times Live Television Studio. Young Newspaper Feature. BPIA Future of Photography. Yamaha/TES National Youth Rock & Pop Awards. Games Arena. Computer Shopper PC Village. Focus on Multimedia.

Get your hands on a ticket. Phone the LIVE hotline or return the coupon now.

LIVE '94

THE CONSUMER ELECTRONICS SHOW

EARLS COURT • LONDON
20-25 SEPTEMBER 1994

LIVE HOTLINE: 0891 500 103

Calls cost 39p per minute cheap rate and 49p per minute at all other times.

Please tell me more about LIVE '94 and how I can get a ticket to the UK's most electrifying event.

Name.....

Address.....

.....

..... Postcode.....

HFC

Please return this coupon to:
LIVE '94, News International Exhibitions Ltd.
Europe House, World Trade Centre,
St Katharine-by-the-Tower, London E1 9AT.

Choice SESSIONS

The latest products, the best recordings and our own point of view on the most interesting developments to hit the hi-fi scene. Concise reports by the Choice *team.*

Multi-Disc CD Player

Sony CDP-CX100

£800.00

- ▲ **A niche product; about as good as such players get; too bad if you've 101 CDs.**
- ▼ **Clunky disc handling; sound quality not as natural as the best single disc players at this price.**

SOUND ★★★★★

VALUE ★★★★★

Most CD players accept one disc at a time, while a few take two, three or even a handful. Here, though, is a player which accepts a collection of one hundred discs. It uses an internal circular holder reminiscent of a Kodak Carousel projector slide tray.

The disc holders are non-inter-changeable, so you can't keep separate trays of discs loaded up for different purposes. However, there is hidden flexibility (in an almost undocumented feature) which allows three separate *CDP-CX100* players to be operated by a single remote coontrol.

The most powerful operating feature is the so-called Custom Files, which can be used to store a title, list of tracks to be skipped and even an output volume level for each disc. Individual discs can also be allocated to groups (catagories like jazz and classical), which makes light work of programming your fave tracks for background listening at a party, or sequential play of all the Barry Manilow titles you can handle.

But who would want to invest £800 in an outsize 100 disc CD player? My first reaction was that the Sony would be a natural in studios where a number of discs need to be held on tap. Pirate broadcasters will probably also welcome a player such as this; clubs, restaurants and pubs certainly will. However, the Sony lacks such attributes as studio-friendly balanced outputs, fast cueing and even the solid build expected of professional equipment. The unit is limited to a Toslink optical digital feed and two line-level electrical outputs, one fixed, the other variable.

Performance is unexceptionably good. Like other recent models from Sony, the *CDP-CX100* is a slick sounding design that extracts a full measure of detail from discs, most of which reproduce with real refinement. The treble is slighty obtrusive, and the bass is if anything just the opposite, yet any departures from the straight and narrow are minor. Stereo soundstaging is positive, there is plenty of lateral positional information, yet the sound doesn't always show adequate depth and solidity.

Alvin Gold

Sony UK Ltd, Sony House, South Street, Staines, Middlesex TW18 4PF.
☎ (0784) 461688



How Many discs? More albums than Des O'Connor has recorded, that's for sure.

Turntable

Dual CS505-4 UK

£1,190.00

- ▲ **Detailed, pacy sound; well built.**
- ▼ **Bright, flat soundstage; ultimately tiring.**

SOUND ★★★★★

VALUE ★★★★★

The £200 *CS505-4 UK* marks Dual's re-entry into the British turntable market. The mouthful of a name reflects the company's aim to engineer the deck to suit 'UK' audiophile tastes.

Outwardly, not a lot has changed from the Dual *505* series, apart from the inclusion of a felt platter mat and an Audio Technica *AT95E* moving magnet cartridge.

A steel chassis floats on springs within a plastic plinth, which itself sits on four solid



Could this be a gem of a turntable from Dual? The *CS505-4 UK*, flying the flag for patriotism.

feet. As with predecessors, this makes for a well isolated deck, both sonically and physically. The design also benefits from auto switch-off and a speed changer — unlike some of its challengers.

Overall, the build quality is very high, although there were some blemishes which spoiled the plastic finish of the review unit. Setting up was remarkably easy as the cartridge is pre-installed, and there are only a few locking bolts to release.

Unfortunately, the sound quality proved to be rather a mixed bag. Although there was plenty of detail and focus across the horizontal plane, and instruments certainly held their own, none really took command when they should have done. This problem was compounded by a lack of depth to the sound-stage which meant that any detail there was could be lost in busy rock sections and that percussion, in particular, became rather ragged.

There was no question of the music not being up-front — it was almost frantic at times. Although this can be appealing with hard rock tracks, natural peaks and timing are sacrificed if you're in the mood for something more sophisticated.

My most serious criticism, however, is of the overall brightness which tended to make the deck tiring. I managed to alleviate this feeling slightly by pushing the speakers nearer to the wall, but the sound continued to lack warmth. This is not a turntable that lets the music breathe and all too often I found myself listening to the deck's failings rather than to what it was playing.

At this price Dual is competing directly with the Rega *Planar 2* (£185 without cartridge), whose excellent big brother, the *Planar 3*, is only an extra £60. I would certainly give these a listen at the same time as the Dual.

Paul Fisher

RAM Projects, Unit 27, Stretford Motorway Estate, Barton Dock Road, Stretford, Manchester M32 0ZH.
☎ *061-866 8101*

PREAMPLIFIER

QED Vector

£250.00

- ▲ **Fully remote, active or passive operation.**
- ▼ **Doesn't look much, conservative sound.**

SOUND ★★★★★
VALUE ★★★★★

At £250 the QED *Vector* reads like a lot of product for the price. It's a fully remote, passive or active preamplifier with a decent motorised volume pot and microchip control.

The reason it's so competitively priced is that like another successful QED component, the *Digit* DAC, it inhabits a very plain and small box with not a knob or switch in sight. Power comes from a plug-top transformer (though for another £150, the *Vector Reference* includes a transformer within a more snazzy case. However, it does have an LED display which tells you which input is selected, whether it's in active or passive mode, if it's muted and what the volume level is. The latter is shown graphically, with a circular array of lights that resembles the EEC flag. All options are handled by the remote, which can also be used with any Philips-based CD player.

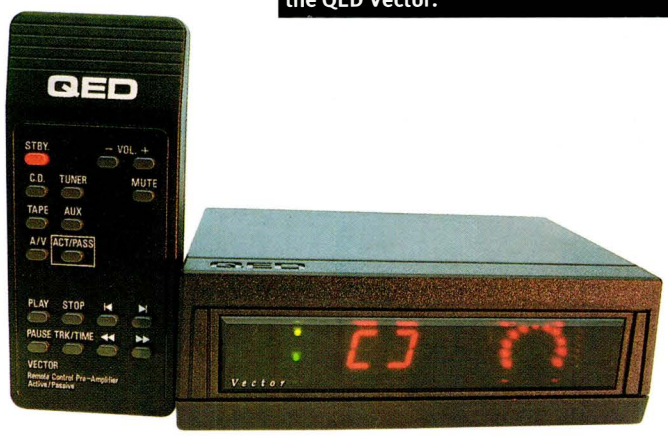
The *Vector*'s unique selling point is the fact that it combines the purist appeal of passive operation with the couch potato appeal of remote control. Passive operation does not necessarily have an advantage, it depends very much on the in and output impedances of the various components in the system. Passive preamps rarely work well with valve amps for instance. Which is where the *Vector*'s active side comes in handy, you may find that some sources sound better in the other mode, with the remote it's pretty straightforward to find out.

Using it in place of a Michell *Argo HR* preamp with *Alecto* monobloks I didn't discern a great deal of difference between active and passive modes. In both it was a little defocused and soft compared to the £1,300 *Argo*, but it did keep tempo well and had generally good resolution. Next to a similarly priced passive preamp it lacked energy and clarity, sounding a little shut in and electronic, but not aggressive.

And though the *Vector* is no high-end component, it's a good-quality, user-friendly product with sonic capabilities in line with its price.

Jason Kennedy

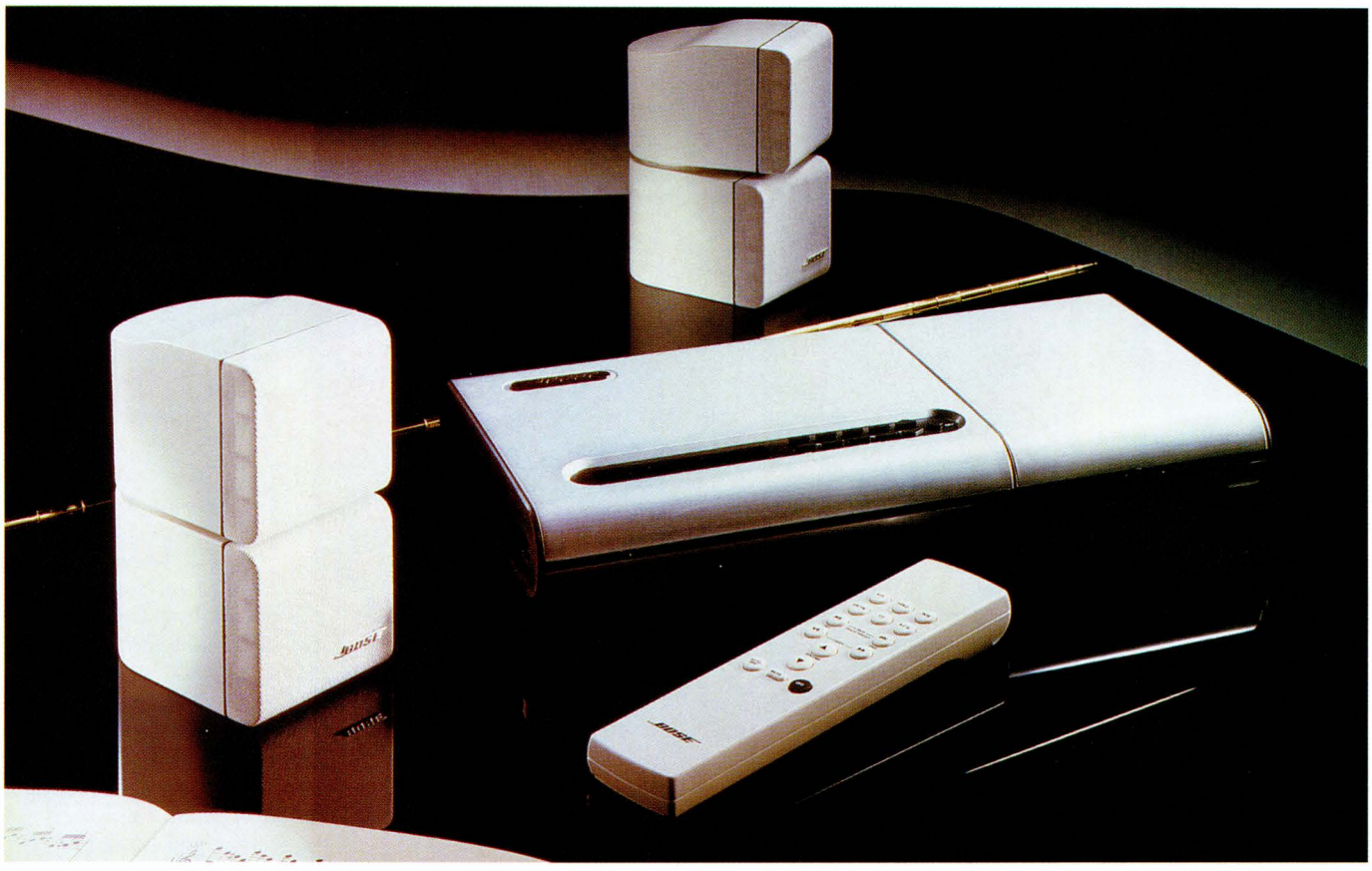
QED Audio Products Ltd, Ridgeway House, Ridgeway CLose, Lightwater, Surrey GU18 5XU. ☎ *(0276) 452211*



A couch potato's flexible friend, the QED Vector.

BOSE® Lifestyle® music systems

Spend one minute to have music for a lifetime!



Lifelike sound.
Elegance. Simplicity.

Born from a new system technology.

Now you can get an award winning music system!

Now is the time for change:

Fill your home with music instead of bulky, complicated components. Listen to stereo throughout your listening area.

Enjoy lifelike sound at any volume level. Use it as easily as your telephone.

Control your entire music system from anywhere in your home – even through walls!

Choose a revolutionary new Lifestyle® music system – and GET MORE!

Ask for a demonstration!

GET MORE...
from your music system!

"The sound is incredible, the illusion compelling and the design is *seriously* sleek. Irresistible." *Arena*

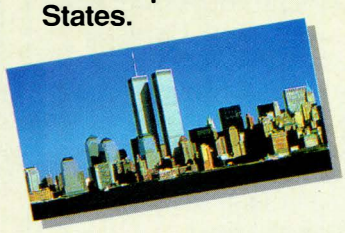
"The Bose Lifestyle Model 10 is light years ahead." *What Hi-Fi*

"I am greatly impressed by the Bose Lifestyle music system. The sound of individual instruments is as true a reproduction as you can hear. The speakers have great clarity yet are warm at the same time. What's more it is certainly excellent value for money." *Julian Lloyd Webber, Cellist*

BOSE
Better sound through research.

**BOSE LIMITED,
TRINITY TRADING ESTATE,
SITTINGBOURNE,
KENT ME10 2PD
TEL: (0795) 475341**

*** Win a trip to the United States.**



* Limited offer.
Check with your participating dealer.

CALL NOW FREE **0800 317942** FOR A FREE INFORMATION PACK

For a FREE Brochure and full details on Bose® Lifestyle® music systems and the GET MORE offer fill in this coupon and send to Bose Limited, Trinity Trading Estate, Sittingbourne, Kent ME10 2PD

BOSE
Better sound through research.

Name: _____

Address: _____

_____

_____

Postcode: _____

Tel. No: _____

HFC 8-94

If you do not wish to receive future product information from Bose® or our appointed dealers please tick this box ☐



With better speakers, this Aiwa is a sound prospect for the 'second-room' system.

SYSTEM

Aiwa NSX-540

£400.00

- **Compact (if messy looking); decent performance of main electronics.**
- **Gimmicky; disappointing spatial sound system; needs a speaker transplant.**

SOUND ★★★★★

VALUE ★★★★★

The latest batch of mini systems from the prolific Aiwa stable includes the £400 *NSX-540*. This consists of two rather garish loudspeakers and rather less than a cubic foot of electronics. The feature rollcall includes a three-disc CD player; a twin auto-reverse Dolby B cassette deck; a 32-preset, three-band radio tuner; and an amplifier that purports to deliver 55 watts per channel, (direct comparisons with established hi-fi amplifiers suggests this is probably nearer 20 watts).

A karaoke voice-over feature is included, and the system makes a nod in the direction of enhanced stereo reproduction thanks to a front surround speaker which contains extra drive units to promote a feeling of spaciousness. The system also boasts a timer (record or play) feature, plus a wide range of tone bending and some rather crude DSP effects. However, the Aiwa has nothing so obvious as tone controls.

To spare the blushes of my neighbours, the karaoke function went untested, but not so the rest of the system. Hi-fi it ain't of course, and here much of the blame must be shouldered by the speakers which are rough and sometimes even aggressive when driven by an unequalised signal. Bass is notable mainly by its absence, though the upper bass takes on a congested, rather tubby presence when the 'T-bass' boost feature is engaged. Swap the speakers for a pair of decent compacts — I used Celestion *1s* — and the Aiwa's electronics are revealed as likeable and even quite musical, though this meant loosing the front surround feature (no great loss), and presupposed that the DSP and other tone benders were switched out.

If the criticisms sound familiar, well that's because Aiwa has faithfully followed the mores of packaged system design. Yet Aiwa enjoys economies of scale which enable them to make equipment that is decent (speakers apart) and even quite stylish. The system doesn't have the wherewithal for serious exploration of the outer edges of musical expression, but it is fun, flexible — and a sound bet as a second room system.

Alvin Gold

Aiwa (UK) Ltd, Unit 5, Heathrow Summit Centre, Skypoint Drive, West Drayton, Middlesex UB7 0LY. ☎ 081-897 7000

LOUDSPEAKERS

ProAc Response One 'S'

£999.00

- **Stunning bass from a small box; almost panel-like transparency; a world-class speaker.**
- **Must be used with Target *R1* stands; demands the best equipment.**

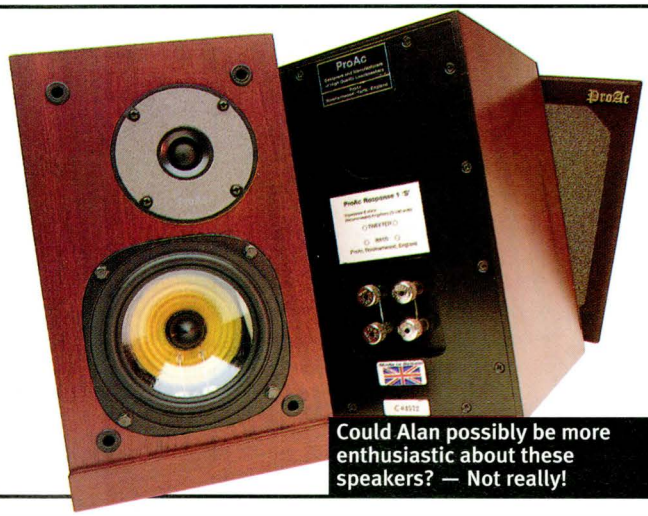
SOUND ★★★★★

VALUE ★★★★★

I have been a fan of the ProAc *Response One 'S'* since its launch some two years ago, and have used the speaker regularly in my listening line-up. I still maintain that it is *the* loudspeaker for high-end systems in small rooms, Sonus Faber notwithstanding.

However, time and science move on. ProAc has introduced an substantial modification to the speaker, using a new transparent driver from SEAS and a modification to the crossover. The new driver incorporates a far stiffer well-damped cone, and an improved cone surround to improve the bass performance. This has slightly increased the price of the *R1S* to £999, and is retrofittable. The upgrade costs £150, which includes fitting and return carriage in the UK.

For those unfamiliar with the design, the *R1S* is not much



Could Alan possibly be more enthusiastic about these speakers? — Not really!



Doing a fair impression of a pricier combo, the Rory Bremner of CD players, Linn's Mimik.

larger than a *BBC LS3/5a,* and is a two-way rear-ported design with a soft-domed tweeter. It is bi-wirable and designed to be used in free space on the exceptionally heavy £260 Target *R1* stands.

However, the specifications don't prepare you for the sound quality of the *R1S.* It produces clean, seamless music with a bass that makes you play 'hunt the subwoofer'. In the right room and with the right equipment, the *R1S* is capable of making a big sound that would not be out of place from a four-foot tall floorstander.

The new modifications dramatically enhance the bass depth and midband transparency of the *R1S.* This makes the speaker sound as close as you can get to electrostatic transparency from a traditional box design. Even at high SPLs, the speaker is still coherent and dynamic, not even messing up the KLF's *It's Grim Up North* at full blast.

Although you need to use the best components for the best performance, I can find no fault, given the speaker's size. Its treble is slightly tipped up, but this simply sounds detailed and never zingy. Although it will fill some surprisingly large rooms with sound, it really shines in a small listening room.

If a grand seems like an absurd amount of money to pay for what seems like a bookshelf speaker, think again. The old *R1S* was the finest small monitor speaker I'd heard, but the competition was fierce. The upgraded version pushes the envelope: the best just got better.

Alan Sircom

ProAc, 130-132 Thirsk Road, Borehamwood, Herts WD6 5BA.
☎ 081-207 1150

CD Player

Linn Mimik

£789.00

Clean and focused sound; ideal as part of a Linn hi-fi system.

May be too small sounding for everybody's taste; flimsy CD tray.

SOUND ★★★★★

VALUE ★★★★★

Following the critical acclaim for the Linn *Karik* CD player-cum-transport and *Numerik* digital-to-analogue converter, Linn have introduced a cheaper integrated CD player, the £798 *Mimik.* The *Mimik* is intended to sound as similar as possible to the aforementioned combination, at a lower price.

One of the key cost-cutting areas is the CD tray itself. The *Karik*'s CD drawer is a thin but solid single chunk of alloy, while the *Mimik*'s drawer is a flimsy, wobbly sliver of plastic. Although I'm sure that it's every bit as reliable as the *Karik*'s drawer mechanism, it doesn't inspire confidence, especially in an £800 player. Over all, however, the *Mimik* seems well made, in Linn's inimitable style.

While the *Mimik* lacks the synchronisation system that keeps the timing of the *Karik/Numerik* combination so tight, it does use a *Delta/Sigma* DAC chipset and BNC connection for an external decoder. The player is designed to mesh with Linn electronics and the company's forthcoming *Knekt* multi-room system.

The electronic engineers at Linn have a very distinct idea of what constitutes music. This fact will polarise opinion about the *Mimik*, as it does about the rest of the electronic range from this famous stable.

Those who favour the Linn sound will praise a tight, focused performance, the fine, glare-free treble detail and an absence of artifice. They may also enjoy its tight sense of rhythm, especially on easy-going rock music. However, others will find the same performance too dry, lacking in imagery and light in the bass.

It isn't an intrinsically bad sound, however. I played the *Mimik* back to back with the similarly priced Meridian *506* in a variety of systems, to several people visiting my listening room. Opinions were divided, some found the *506* too bland and overblown, others classed the *Mimik* as small-scale and lightweight. In the context of a complete Linn system, such a sound is fine, but outside of a Linn system, its results are unpredictable.

Ultimately, the *Mimik* is absolutely impossible to recommend without a serious audition. Although it's not the player for me, as I find its music just too small and arid for my tastes, I can totally understand why someone would opt for its lean, tight performance.

Alan Sircom

Linn Products Ltd, Floors Rd, Waterfoot, Eaglesham, Glasgow, G76 0EP. ☎ 041-644 5111

Accessories

Ortofon Plateau baseboard

£49.95

Well made and attractive appearance; adds space and detail.

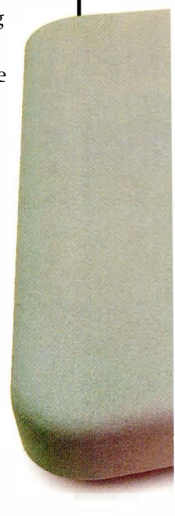
Can add emphasis to sibilance; tends to push the music forward.

SOUND ★★★★★

VALUE ★★★★★

Back in the seventies, trying to tweak a system with cables and supports would arouse the attention of white-coated individuals carrying jackets with long arms and buckles at the back. In these enlightened times the opposite is true.

The *Plateau* baseboard, now distributed by Ortofon in the UK, is charcoal grey and costs £49.95. It's made of a polymer composite top, separated from an MDF baseboard by sorbothane pads. All sits on four soft





Cinema sound on a plate with the Toshiba *2539DB* Pro-Logic television.

rubber feet.

The baseboard can open out a performance, especially the treble. Playing a rough mix of Bob Marley's *Exodus* through a Meridian *506* CD player, it was far easier to hear the poor panning in the treble and it defined the sounds of the hi-hat far better than before.

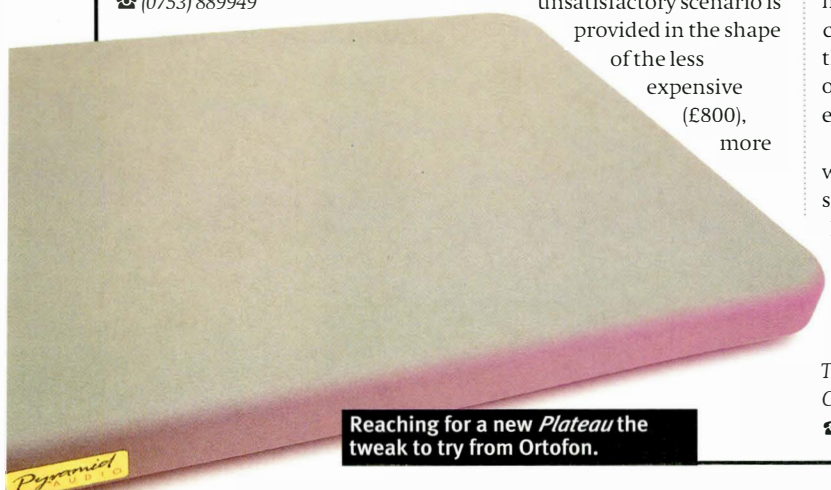
Vocalists were pushed forward slightly and any sibilance inherent in a recording was enhanced.

The *Plateau* lies between the Mission *Isoplat* and the Base *Baseboard*, both in price and performance. The *Isoplat* helps divorce a CD player from its surroundings, yet it doesn't intrinsically improve the performance. The *Plateau* does bring about some definite improvements, but these are not as dramatic as those possible with the Base, the Seismic Sink or any of the Mana tables.

The *Plateau* is good value and would be great for those who like to wring out the last ounce of treble detail, or alternately to brighten up a tonally dull system. But for an already balanced system, it may open out the soundstage at the expense of some extra brightness.

Alan Sircom

Ortofon UK Ltd, Chiltern Hill, Chalfont St. Peter, Bucks SL9 9UG.
☎ (0753) 889949



Reaching for a new *Plateau* the tweak to try from Ortofon.

TELEVISION

Toshiba 2539DB Pro-Logic

£789.00

Superb value for money.
Not enough bass.

SOUND ★★★★½
VALUE ★★★★★

First you buy your telly, then a Pro-Logic amp, main speakers, centre speaker, speakers for the rear and, maybe, a subwoofer. But what if the whole lot won't fit with your existing system?

An alternative to this unsatisfactory scenario is provided in the shape of the less expensive (£800), more consumer friendly Toshiba *2539DB Pro-Logic* television. What you get for your money is a good 25inch telly and all the necessary hardware to fill your front room with that "only-at-the-movies" surround sound.

The star of this Toshiba telly is its centre speaker that, in Pro-Logic mode, offers dialogue precision above and beyond the call of duty in a package of this price. Apart from a brilliant Pro-Logic mode it offers a useful array of different sound effects ranging from Stadium for those rock concerts to Theatre for when *Middlemarch* beckons.

There are, however, a couple of drawbacks; the main one is with its subwoofer. Just one amplifier is used to drive both the centre speaker and the subwoofer. Unfortunately, this means that both speakers can't be driven at the same time which can be frustrating in Pro-Logic mode as there is very little bass. The addition of an active subwoofer would be a suitable solution to this problem.

On a smaller scale, people with large lounges may find that the amount of cable supplied for the rear speakers is not enough to carry them comfortably around the walls to the back of the room; on the other hand, it is easy to add extra wire.

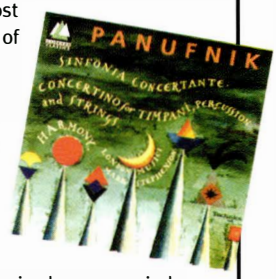
In conclusion, then, if you want to amze your friends with surround sound, but wish to leave your hi-fi unsullied by Dolby Surround Sound this set is an ideal choice.

Rob Tribe

Toshiba UK, Frimley Road, Frimley, Cumberley, Surrey GU1 6 5JJ.
☎ (0276) 62222

Album review

Sir Andrzej Panufnik, who died in 1991, is among the most interesting and approachable of modern composers. Yet his music makes little attempt to be fashionable or catchy. Few of his works can be wholly assimilated at first hearing; you need time and patience, an open mind, and a willingness to suspend prejudices. His *Sinfonia Concertante* for flute and harp is a very rewarding piece. The first movement is remarkably spare, almost to the point of austerity. It begins simply, yet commands attention despite an almost Zen-like calm. Its droning basses remind one of Britten's 'night' music, albeit in lofty and spiritually aloof guise. The middle movement is fast, and rhythmically lively, rising to a sharp flashing climax before ending abruptly. The short finale breathes similar air to the first movement, acting as a brief epilogue.



Panufnik's ear for sonority is very apparent in the *Concertino* for Timpani, Percussion, and Strings. Again the music is austere, but more intense than the previous piece. The use of pitched chimes redolent of tolling bells, contrasted with powerful strings, leads to tensions that are unresolved until the rhythmic Intermezzo. This leads to a spacious slow movement, *Canto 11*; strings intoning a quiet but tender theme against a shimmering backdrop of pitched percussion. The finale is violent and agitated, with strings playing a spiky theme bolstered by hard aggressive percussion. The disc ends with *Harmony*, subtitled *A Poem for Chamber Orchestra*, which starts quietly but rises to a passionate climax. In one movement, it lasts about 15 minutes and explores an ever-growing interrelationship between strings and woodwind.

Engineered and produced by former Decca engineer Tryggvi Trygnvason using Technics/ Panasonic DAT machines, the sound is clean, detailed, and lifelike. Clarity is always good, though Panufnik's scoring helps by keeping textures transparent and open. A word too about the excellent performance of London Musici under Mark Stephenson, which sound secure and authoritative; one could hardly hope to hear this music played better.

THOROUGHLY RECOMMENDED...

"...best you can buy for sensible money"
Q, September '93

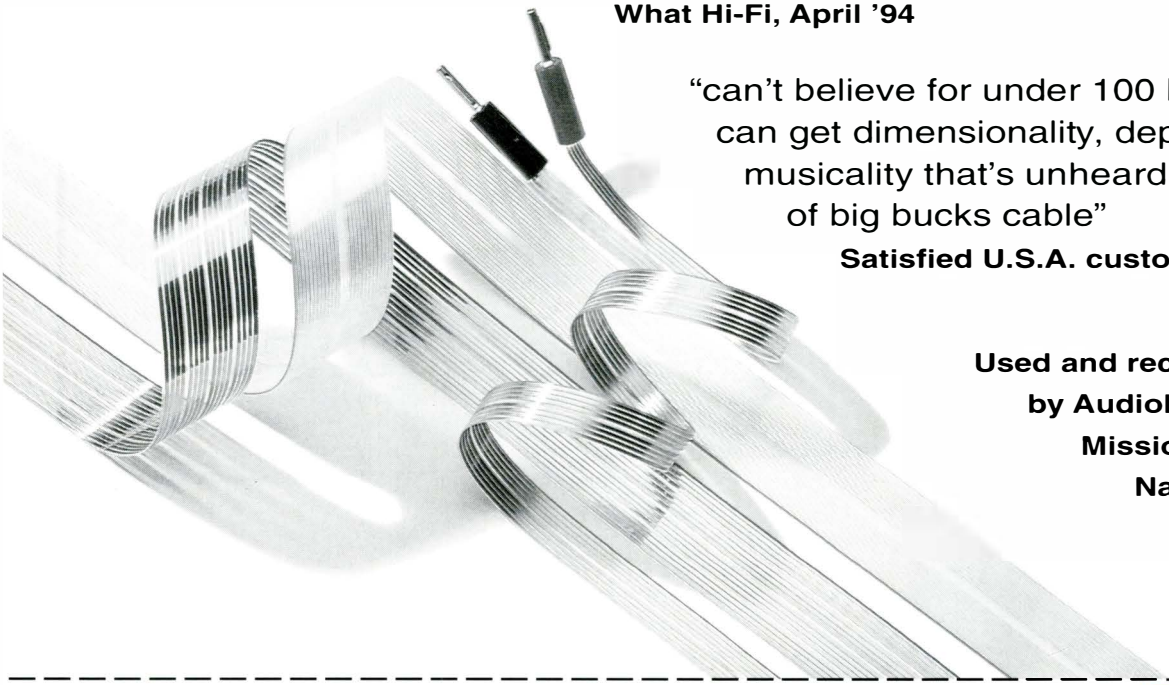
"foot-tapping, likeable and exciting sound - five star performance"
RECOMMENDED
What Hi-Fi, October '93



"...'Suona' magnificamente e costa acettabile"
RECOMMENDED
Suono (Sound, Italy)

"Lively coherence, splendid dynamic range"
RECOMMENDED
Hi-Fi Choice, April '94

"...throws the window wide open and makes a system sing"
RECOMMENDED
What Hi-Fi, April '94



"can't believe for under 100 bucks you can get dimensionality, depth and musicality that's unheard of in the land of big bucks cable"
Satisfied U.S.A. customer

Used and recommended also by Audiolab, Naim Audio, Mission Cyrus, Nakamichi UK and Rega Research.

For advice, sales and service or simply a brochure - call, fax or send the coupon

NAME _____

ADDRESS _____

_____

_____ POSTCODE _____

☐ Interconnects ☐ Speaker Cables ☐ Speakers Please tick required box

THE CHORD COMPANY

30A Sarum Business Park,
Portway, Salisbury, SP4 6EA.
Tel: 0722 331674
Fax: 0722 411388



Distinctive speakers, but I'm sure their mother loves them. The first fruits from a new style Wharfedale.

SATELLITES AND SUBWOOFER

Wharfedale Modus Vivendi Micro and Sub-Bass

£99.00/£139

▲ **A return to form; the quick and dynamic presentation will make many friends.**

▼ **Bass lacks dynamics; light and bright system balance.**

SOUND ★★★★★

VALUE ★★★★★

It is no secret that Wharfedale has been through some lean years, culminating in a recent take-over by the group that includes Mission Electronics. First fruit of the new regime is the modular *Modus Vivendi* hi-fi-cum-home-theatre speaker range which, by all accounts, is already a considerable success, both here and in the Far East.

A pair of *Micro* magnetically shielded satellite speakers and a *Sub-Bass* passive subwoofer were selected for test. The *Micro* is a true miniature with an 'airflowed' low diffraction, low-resonance enclosure and a rotatable tweeter housing. The bandpass subwoofer has two fully enclosed drive units. Styling is interesting, but will not attract universal praise.

The sound quality is unexpectedly good despite a residual quackiness and unevenness in the midband. The overall frequency balance is bright, giving a forward feel, and the treble lacks refinement. But the colorations are a static phenomena, mostly at a low level, and are eventually filtered out by the ear and brain.

The Wharfedale combination is articulate and airy, with a truly surprising range and dynamism. The unusual lack of compression made the listening experience a great deal more vivid and lively than expected.

The subwoofer also worked quite well. The enclosure is not big or solid enough to give a genuinely weighty bass, but the reach was good even if the lowest frequencies were muted.

It was capable of reaching most of the organ pedal stops, though it wasn't up to generating trouser trembling sound pressure levels without obvious compression, especially at high volumes. Attenuation of unwanted midrange artefacts was very effective, which helped the subwoofer to mesh with the satellites.

The sheer vitality and lack of midrange and treble compression meant that the system was genuinely engaging, to the point where it made much of the competition sound mean spirited.

Alvin Gold

Wharfedale International Ltd., Crossgates, Leeds LS15 8AL.
☎ *(0532) 601222*

AMPLIFIER

Crimson 610B & 620B

£790

▲ **Detailed, rhythmic sound; good value for money.**

▼ **Dated styling; lack of inputs a worry; for solid-core fans only.**

SOUND ★★★★★

VALUE ★★★★★

Checking back issues of *Hi-Fi Choice*, I found a Crimson *Elektrik610/620* combination was tested in *Hi-Fi Choice* exactly 100 issues ago. The long, matt-black cases sported the absolute minimum of front-panel controls, and the design is the same today, though now it looks dated.

The current £395 Crimson *610B* preamplifer is severely lacking in inputs, with only enough for a turntable, CD, tuner and tape recorder. The matching *620B* power amp at £395 is a 40 watt stereo affair, although there are also a pair of monobloks. Crimson's tie-in with Virtual Reality means that the amplifiers can be a part of 'the great upgrade', with maximum trade-in against DNM amplification.

Wire the system up with DNM solid-core interconnects, speaker cables and even mains cables, and it really begins to sound clean and detailed. There is a touch of the Naim amp about its sound, with some power and grunt to the bottom end, with a sweet mid-range and a forceful top. Using it with multi-strand cables tends to thicken the mix.

Outside of this, it has a good balance of detail and coherence and it bops along happily. Aside from the lack of inputs, my only real criticism is that the phono stage is a touch hissy, especially on MC cartridges. In absolute terms, the amp is neither the most refined nor transparent of amp combinations, but its low price weighs heavily in its favour.

The Crimson is cheap and cheerful, yet has a sound quality that is exceptionally good for the money. It's not too fussy about positioning and synergy and is deceptively powerful for a 40W amp. At a price populated by range-fillers and products low on absolute sound quality, the Crimson is a budget audiophile's dream.

Alan Sircom

Virtual Reality, PO Box 383, Brentwood, Essex CM14 4GB.
☎ *(0277) 227355*



Crimson *610B* and *620B* pre and power amplifiers — a good sound at a very decent price.

Tannoy 215 DMT II

Into the studio with Paul Messenger this month, as he witnesses 60 inches of Tannoy diaphragmed speaker power.

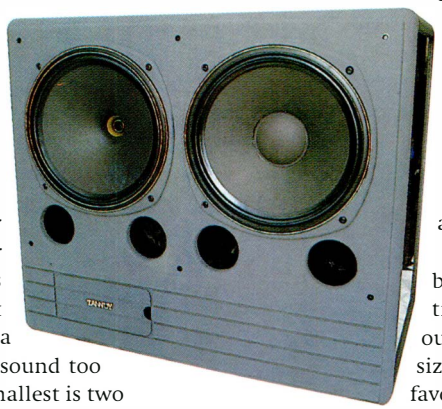
This is not a hi-fi speaker, although it won an important prize in Japan for such a role a couple of years back. It's not a PA speaker either, even though it would handle your local cinema or disco. It will stand out like a turbo-charged twin-tub in your traditional lounge, but has its own hi-tech elegance nonetheless.

This is a speaker with attitude: 'I ain't no namby pamby hi-fi component; I'm a real loudspeaker, for real people who make real music, not just listen to it!' Indeed, a significant proportion of your recent record purchases could well have been made using a pair.

The Tannoy *215 DMT* is a pukka, full size studio monitor, the biggest in the company's Monitor Series catalogue, designed to look right and do the business among the hi-tech paraphernalia of today's recording studio environment. You won't therefore find them on dem down the hi-fi store. The price, probably on the right side of £6,000 per pair, will be negotiable between you and a serious Pro Audio dealer.

The in-flight catering trolley shape is dictated by a long established recording studio standard, enabling *215 DMT*s to be 'dropped in' to existing cut-outs in studio dummy walls which leave the front baffle flush. And its Far East success might well have something to do with the Japanese predilection for building everything into an equipment 'wall'.

Even standing free they're much less visually intrusive (and less expensive) than, say, Tannoy's *Westminster Royal*, the Living Voice *Air Partner* or Townshend's *Sir Galahad*. The largest dimension here is only a metre — which doesn't sound too much at all — but the smallest is two thirds of that, which translates into more than half a cubic metre of sheer bulk and a couple of very useful surfaces for pot plants, magazines and so on. The 85kg weight is very impressive too, especially if you don't have a fork-lift truck and do have a bad back.



Tannoy's industrial-strength ***215 DMT II*** studio monitors — suitable for home use?

The legend *215 DMT* actually means something. The *215* bit translates as two 15in drivers, giving a diaphragm area many times that of the typical hi-fi speaker. One is just a bass unit, the other is a dual concentric, whose main cone can be configured to cover bass and midrange or midrange only, and which has a 'tulip wave-guide' horn-loaded tweeter firing through its centre.

The *DMT* in the name stands for Differential Material Technology. Tannoy defines this inspirational buzz phrase as 'the study of different materials and their relative behaviour when in intimate contact' — which could be applied to almost anything in mechanical engineering, without giving any real clues to the what or how thereof.

Under wraps

The *215 DMT* is a complex and subtle combination of massive sculpted 36mm MDF baffle and back, linked by a skeletal frame and filled by inset high pressure laminate wrap panels. Elaborate internal bracing and lossy couplings help control and absorb the very considerable energies involved, while three enormous ports provide reflex-tuning. All the ingredients are lavishly over-engineered, with bi-wire terminals on both front and rear.

The measured performance is awesome. The basic balance is very like a typical modern compact floorstander — except that sensitivity is roughly 9dB higher (97dB/W). This is equivalent to exchanging your typical 50W amp for a 400W leviathan. Take advantage of the 150-500W recommended amp power and you can consider yourself a fully paid up member of the fantasy loudness league. Or maybe it's the perfect partner for that 3W single-ended triode valve amp you've always fancied.

I would have liked to have been able to boost the relative treble a few decibels to 'open out' the top end, and in normal sized rooms the bottom end does favour midbass over low bass. But the net energy averaged over 20-100Hz is about right, and extension is a respectable -10dB in-room at 20Hz.

Macho, rude and brutish?

The macho styling and drivers prepare one for something pretty rude and brutish, and with enough amplification and a rude enough source I daresay the *215* would oblige. But given a few days to settle down onto Foundation *Isobarik* style stands and the floor beneath, and fed a diet of high class material, it was the model of polite good behaviour as well as considerable excitement and enjoyment.

The over-riding impression is of almost infinite headroom and dynamic range, giving a freedom from stress and strain which somehow makes low level listening just as entertaining as the other sort. A shade too analytical for some perhaps, this speaker doesn't paper over any cracks or present a rosy view of your various recordings, and there's not the romantic midband of the Alnico magnet dual concentrics.

This latest DMT variation is certainly sweeter and more coherent at the top end. It has better overall broad-band dynamics, and superior midband phase accuracy, especially when the full range DC driver is protected from large excursion by rolling it off at the bottom end (a network option).

Dramatic monitoring

The *215* is a highly effective monitoring tool. I particularly liked the way it laid bare the construction and sound effects of BBC radio drama.

While the combination of wide dynamic range and bandwidth alongside a smoother and better balanced performance than most large loudspeakers can manage, repeatedly brought new, yet listenable, insights into the mechanics of modern multi-track recording techniques.

I've tried a lot of very large and expensive speakers this past few years. All have some or other exceptional qualities, usually accompanied by equally noticeable weaknesses.

The greatest strength of the *215 DMT II* is that the latter are notable by their absence — unless you count the styling. It's not perfect, but it is exceptionally good in almost every respect, and also realistically priced considering the extravagant performance envelope and engineering quality. Pro-oriented it maybe, but that Japanese audiophile award was fully justified.

Tannoy Ltd, Rosehall Industrial Estate, Coatbridge, Strathclyde ML5 4TF.
☎ (0236) 420199



The truth,
the whole truth,
and nothing but the truth . . .



. . . so help me DPA!

It is a truth universally acknowledged, that clarity of sound allows true involvement with music.

Recognised Hi-Fi critics throughout the world have consistently praised DPA's products for their unrivalled clarity and transparency of sound reproduction. This inevitably leads to more profound musical experiences.

After years of development, the 200S pre and power amplifiers have been perfected. The amplifiers share the technology that has so inspired reviewer's praise in the past. The 200S combination at £1,250 gives state of the art performance at a reasonable price.

If you crave musical truth, contact DPA so we can help.

dpa

DPA Digital Ltd., Unit 7, Willowbrook Tech. Units, Crickhowell Rd., St. Mellons, Cardiff CF3 0EI Tel (0222) 795621 Fax (0222) 794267

Musical Fidelity F18

Alvin Gold finds out if Musical Fidelity's latest power amp can take on the big American names.

Like other amplifiers in the Musical Fidelity F-series, the £3,999 *F18* stereo power amp is a hybrid design. A tube-based linear cascode triode input provides much of the voltage gain. The output section is bipolar, using no less than eight pairs of transistors (not MOSFETs) running substantially in class A, which provides lorry loads of amps as well as volts. Two massive power transformers are specified, but rather than allocate one per channel, the *F18* splits them betwen the input and output stages.

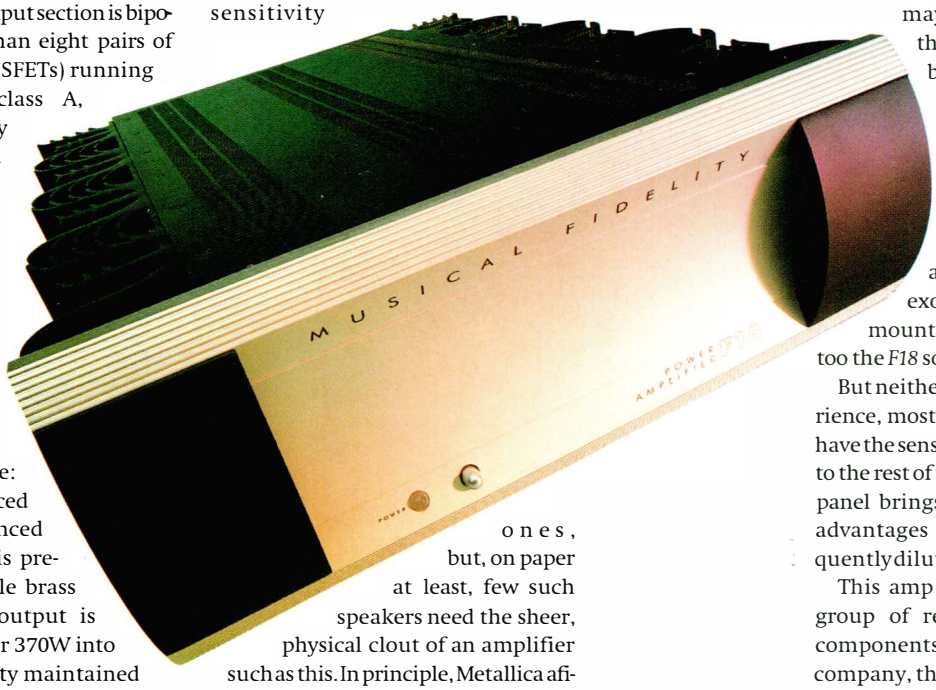
The rest of the story is fairly simple: inputs are unbalanced (phono) or balanced (XLR), and output is presented on bi-wirable brass terminals. Power output is 220W into 8ohms, or 370W into 4ohms, with stability maintained for impedances down to the 1 ohm level.

One curiosity is that other than fuses, no output protection circuitry has been included. The class A circuit is essentially self-limiting, and nothing less than a complete short circuit should cause real damage—and only a fool would crowbar the output sockets. According to Musical Fidelity's Anthony Michaelson, output protection has been omitted because of its sonic shortcomings. Well maybe, but my guess is that Anthony, who doesn't countenance fools gladly, is simply being true to form by, er, refusing to countenance fools.

In other respects, the amplifier is perfectly practical. Just remember the golden rule: to connect up first, and switch on last. The *F18* has a substantial quiescent current consumption and runs hot, but it warms up quickly and, even for quality-critical use, doesn't need to be left running constantly.

In the flesh, the *F18* is a truly impressive object that both looks the part and, at 54kg, feels it too. But big amplifiers don't always live up to expectations.

The *F18* is clearly a design that represents overkill in many respects. It's not primarily intended to be used with ultra-difficult (reactive) loads, of which the big Apogees and Martin-Logans are good examples. The *F18*'s prodigious voltage and current yield makes it more suitable for moving coil loudspeakers, especially big, low sensitivity ones, but, on paper at least, few such speakers need the sheer, physical clout of an amplifier such as this. In principle, Metallica aficionados may well approve of the qualities an *F18* can bring to bear, while Monteverdi-heads will probably be left unmoved. But that is before actually sitting down to listen in anger, as it were.



Wembley scores again, courtesy of Musical Fidelity's *F18*.

Muscular (fi-)delicacy

In many ways, the reality is quite contrary to expectations. I wouldn't go so far as to suggest that Metallica fans will be disappointed, but Monteverdi is remarkably well served by an amplifier that brings a rare sense of ease and transparency to its task.

There is no lack of delicacy and grace from an amplifier that combines the muscularity and control of a solid state amplifier with the seamless, treatment of music of a tube design, while avoiding the negative qualities of both. Above all however, F18 brings consistency to the way music is treated, irrespective of frequency, content or level.

An obvious analogy can be found in the world of cars, in the way that a truly high performance car makes everyday high speed driving so much easier and more secure than a more conventional car, which is necessarily operating much closer to the limits of its performance envelope.

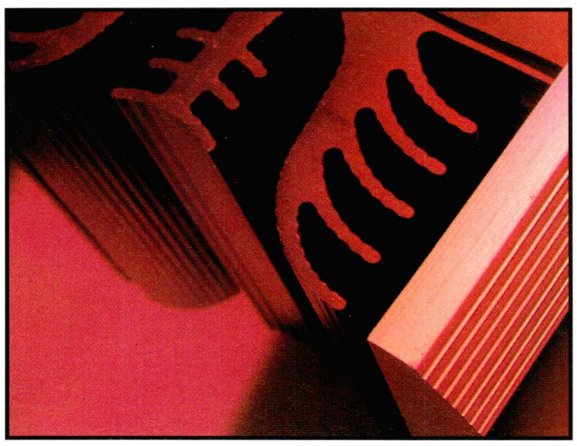
The *F18* is barely breaking into a sweat at any volume level that sensible folk will feel inclined to coexist with, and the free-breathing quality and complete lack of strain at high volumes is all but physically palpable.

To an extent, the findings I present may have been coloured by the fact that the most capable speaker I had available was an electrostatic panel (a recently updated version of the Martin-Logan *CLSIIz*). I had various dynamic speakers too, including Mission *753*s and the Totem *Mani 2*, an exotically engineered stand mounted compact. With these too the *F18* sounded utterly at ease.

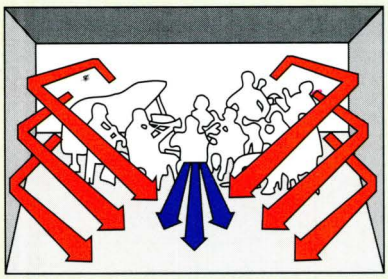
But neither speaker nor, in my experience, most other dynamic speakers, have the sensitivity and responsiveness to the rest of the system that a top class panel brings to bear. Therefore, the advantages of the *F18* were consequently diluted to a degree.

This amp belongs in the rarefied group of refined, high resolution components and systems. In such company, the *F18* stands revealed as a true world class amplifier. It is in a different league to most British amps, except in terms of price, and the equal of all but the most exotic of American super-amps, again except in terms of the price-tag.

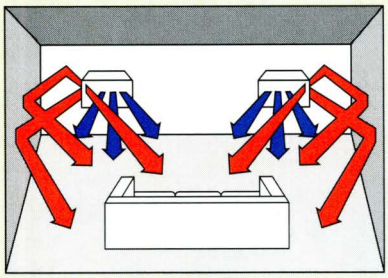
Musical Fidelity Ltd, 15 - 16 Olympic Trading Estate, Fulton Road, Wembley HA9 0TF. ☎ 081-900 2866



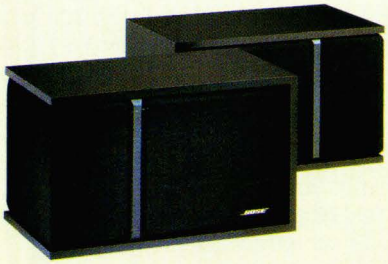
GET MORE...
from your stereo!



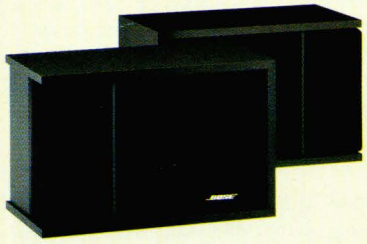
Sound distribution in a live concert



Bose® Direct/Reflecting® speakers



Bose® 301®



Bose® 201®

Ask for a demonstration!

*** Get a free Bose® polo-shirt with purchase!**



* Limited offer.
Check with your participating dealer.

BOSE® Direct/Reflecting® speakers

Don't get stuck in one spot!



Finally listen to Stereo Everywhere®

At a live concert you hear mostly reflected sound. Conventional speakers produce mostly direct sound, so they cannot achieve the realism of a live performance.
Only Bose® Direct/Reflecting® speaker technology delivers the lifelike balance of direct and reflected sound – **you experience the exciting atmosphere of a great live concert! And finally you listen to Stereo Everywhere®! It's time to GET MORE from your stereo!**

BOSE
Better sound through research.

BOSE LIMITED, TRINITY TRADING ESTATE, SITTINGBOURNE, KENT ME10 2PD
TEL: (0795) 475341

CALL NOW FREE **0800 317942** FOR A FREE INFORMATION PACK

For a FREE Brochure and full details on Bose® Direct/Reflecting® speakers and the GET MORE offer fill in this coupon and send to Bose Limited, Trinity Trading Estate, Sittingbourne, Kent ME10 2PD

BOSE
Better sound through research.

Name: _____

Address: _____

_____

_____

Postcode: _____

Tel. No: _____ **HFC 8-94**

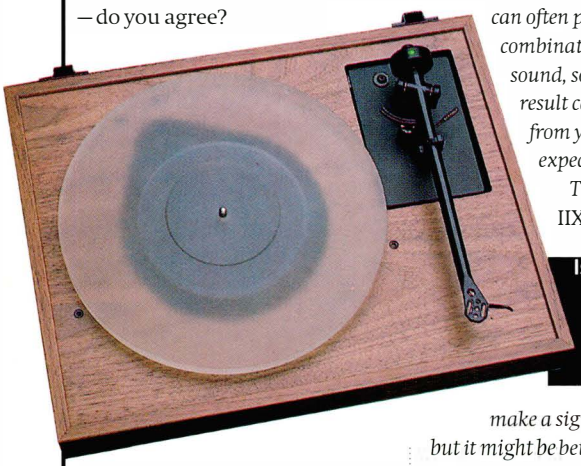
If you do not wish to receive future product information from Bose® or our appointed dealers please tick this box ☐

HELP!

Our experts solve your hi-fi queries

May the force be with you

Q I have a Rega *Planar 3/RB-300/Super Bias*, Pioneer *A-400X* amplifier, Royd *Minstrel* speakers and Cable Talk *3* speaker cables. Which CD player should I add in the £300 to £350 price band? My dealer warns that the Rotel *RCD-965BX* (my favourite at present) will sound too forceful in my system – do you agree?



Is the Systemdek *IIXE/900AP* a Rega-beater, or should you save up for the *Rock*?

Is the Systemdek *IIXE/900AP* a worthwhile upgrade? My dealer advises me to leave the Rega until I can afford a Linn *LP-12* or Townshend *Rock 3*. He says the Rega isn't outclassed by my system and the Systemdek is a sideways move.

C Johnson, London.

A *The Rotel should sound okay; like most Bitstream players it's not overly forward or bright. Why not see if you can borrow a Rotel to hear at home before deciding? Also audition the player your dealer thinks might be best for you, and see how that sounds by comparison.*

Hi-fi is not an exact science and although with experience one can often predict how certain combinations are likely to sound, sometimes the end result can be very different from your preconceived expectations.

The Systemdek IIXE/900AP *would make a significant upgrade, but it might be better to go the whole hog and get a* Rock 3, *have a listen and see what you think.*

At this point, look at one of the better add-on phono stages like the Michell Iso, *the Audio Innovations* P2 *or the new Audiolab* 8000PPA.

In the meantime check out DNM's Ringmat. *At about £30 it will give you a very worthwhile improvement in clarity and detail on the Rega.*

Query of the month



You could win Isoda cable!

Each month we're giving away a one metre pair of Isoda interconnect cables to the writer of the most interesting letter. If you've any system queries send them to: Hi-Fi Choice *(Help!) Dennis Publishing Ltd, 19 Bolsover Street, London W1P 7HJ.*

Front end challenger

Q I am aware of the accepted belief of the 'front-end' hierachy. However, I found that new speakers gave the most immediate and noticeable improvement.

My system comprises an Arcam *Alpha* CD, QED *C300/P300* pre/power combination, and a new pair of Mission *753* speakers.

Since replacing the speakers, I've tried a number of front end variations. However, I am disappointed with what can only be described as very minor improvements in sound quality. Do you still advocate the old emphasis towards the front end, and if so why?

C Martin, Northampton.

A *The need for a quality front-end is self-evident, but if the sound of your source is entirely adequate for the rest of the system further 'improvements' may not seem very significant. It may be that a better amplifier in tandem with an improved CD player and/or DAC would give the sort of breakthrough you're looking for.*

Speakers tend to produce more obvious differences in tonal colour and bass/treble extension than CD players or amplifiers, but in the right system adding an outboard DAC (say) can sound subjectively as significant. Your experience only proves how dangerous it is to apply strict rules to building a hi-fi system; any system is only as good as its weakest component.

Don't knock paper

Q My system consists of Moth *Series 30* passive-pre/power combination, a Rotel *RCD-965BX* CD player, and Linn *Index II* speakers. I wish to upgrade the speakers to Audio Note *AN/J*s but am concerned by the fact that they use paper cone drive units. Is this a bad thing?

Speaker manufacturers like Linn and KEF insist on plastic-coned drivers to keep up with modern technology. Are paper drivers out of date?

A Abou-Shaqra, Saudi Arabia.



Are Audio Note *AN-J* speakers behind the times?

A *Presumably you've heard the Audio Note* AN/Js *and liked them – otherwise why change? The use of paper cone drivers should impart a lighter, faster, more lively presentation, albeit perhaps at the expense of a little added coloration.*

The comparatively light weight of a paper cone also help to make a highly efficient speaker – useful with your excellent, low-powered Moth amplification. The important thing is that you hear these speakers and like their sound; the type of drivers used is surely irrelevant.

Billy Vee SOUND SYSTEMS

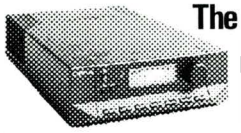
248 Lee High Road
Lewisham London SE13 5PL
Tel: 081 318 5755 & 081 852 1321
Fax: 081 318 0909



Join us for an evening with
June Tabor plus Support
at Blackheath Concert Halls
Tickets £10.00 (Con: £8)
Please telephone for details

Go for Broke
What Hi Fi Summer Promotion
Free accessories or reductions
Offer open from 20th June 1994 to 2nd August 1994

Superb Performance



The New Cyrus range now available

Cassette

Aiwa ADF 850*(F/T)	**£229.00**
Aiwa ADWX 929	£219.00
Denon DRM540 **(NEW)**	£159.00
Denon DRS610	£199.00
Denon DRW760*(F/T)	**£249.00**
NAD 602 **(NEW)**	£199.00
Nakamichi DR 3	**£329.00**
Nakamichi DR 2 *(F/T)	**£549.00**
Nakamichi DR 1 *(F/T)	**£759.00**
Yamaha KX 260	**£129.00**

* (F/T) = Free TDK SA Cassette Tapes.

Loudspeaker

KEF Q10	**£179.00**
Linn Keilidh	£595.00
Mission 760se*(F/C)	**£149.00**
Mission 780se*(F/C)	**£239.00**
Mission 751*(F/C)	**£299.00**
Mission 753*(F/C)	**£699.00**
Monitor Audio 201	£249.00
Ruark Swordsman2	£299.00
Rega Kyte	£198.00
Rega XEL (**NEW**)	£1040.0
Roger LS2a/2	**£229.00**
Tannoy 605/2	£169.00
Tannoy 607	£219.00

*(F/C) = Free Mission or Cabletalk cable

THE CHOICE IS YOURS

We demonstrate everything we sell so you can be sure that any of the products you see advertised here are on display and available for audition.
Our helpful and experienced staff are on hand every day (except Thursday and Sunday) to help explore the possibilities open to you. We welcome your visit.

- **Two listening rooms**
- **Two year minimum guarantee**
- **Free 24hr delivery service**
- **0% Finance available,see below**
- **Part exchange service available**
- **Outstanding product range from:**

AIWA - ARCAM - AUDIO TECHNICA - CYRUS DENON - HEYBROOK - JPW - MARANTZ - LINN PRODUCTS - MISSION - NAD - NAIM AUDIO NAKAMICHI - POLK - QUAD - ROTEL - REGA RUARK - ROGERS - SOUND ORG - SPENDOR TARGET - TANNOY - WOODSIDE - YAMAHA

Come and Listen

FREE 24HR DELIVERY
For most stock items
Please call for details

Source

Arcam Alpha 5 *(F/L)	**£449.00**
Linn Mimik (**New**)	£798.00
Marantz CD53 **(New)**	£199.00
Marantz CD 63 **(New)**	£249.00
Niam NA CD3	£898.00
Rotel RCD 965BX Dis *(F/L)	**£375.00**
Rega Planar 2	£198.00
Rega Planar 3	£260.00

*(F/L) = Free Chord Cobra PP2 Interconnect

Amplifier

Arcam Alpha 5	£229.00
Arcam Alpha 6	£329.00
Cyrus 3 **(New)**	£499.00
Denon AVC 3020	£729.00
Denon AVC 1530	£479.00
Marantz PM44se	**£179.00**
NAD 302	**£159.00**
Rotel RA960BX/2	**£299.00**
Linn Majik - Line Level **(New)**	£524.00
Naim Nait 3 **(New)**	£499.00

Tuner

Arcam Alpha 5	£219.00
Cyrus FM7 Tuner **(New)**	£399.00
NAD 402 **(NEW)**	£169.00
Naim NAT 03 (**NEW**)	£499.00
Rotel RT950AX	**£199.00**

0% INTEREST FREE CREDIT

Up to £1000 Instant Credit available to personal Callers

10% Deposit, Balance over 6 or 9 months. (£350 min)

0% A.P.R. Please telephone for details. Written details supplied on request
(e.g. System: Marantz CD63 / Marantz PM 44se / Mission 780se. Total Price £599.00
Deposit: £59.90. Plus 9 equal payments of £59.90. Price includes VAT and all leads).

ACCESS

Tel: 081 318 5755 & 081 852 1321

Opening times : 10.00am to 6.30pm Monday to Saturday (Closed Thursday)

VISA



Will Pioneer's Stable Platter keep things quiet in Newburn?

Hounding down a needle

Q I have a Systemdek *IIX* turntable fitted with a Linn *Akito* arm and an aged Audio Technica *AT-155* MM cartridge. The amplifier is an first series Audiolab *8000A*, driving Castle *Chesters*.

As it seems unlikely that I will be able to replace my old AT stylus, I'm looking for recommendations on a suitable replacement cartridge. My budget is up to £200, and I can consider MM or MC types.

N Hambridge-Muedd, Essex.

A *£200 is probably a bit excessive given your turntable; you should be able to get a good moving magnet cartridge for under £150. Linn's* K-9 *would be a good starting point, as it's crisp and detailed without being too bright. Goldring's* 1042 *is a decent alternative that works well in Systemdek turntables.*

Hyper sensitive

Q My current system consists of a Linn *Axis/LVX/K9* turntable, an A&R *A60* amplifier (late model), NAD *4225* tuner, NAD *6050C* cassette deck, and a pair of Mission *761*s on Mission stands with Supra cable.

I have at last decided to face up to the inevitable and am going to buy a CD player, but don't know which one. Will a typical player be suitable for the *A60*'s auxiliary socket with its 100mV sensitivity?

C Fox, St Albans.

A *A good choice would be Arcam's* Alpha 5, *a clean but lively player that sounds very immediate and involving. If you wanted to spend less look at Rotel's excellent* RCD-965BX, *or the highly regarded Marantz* CD52II SE. *There should be no compatibility problem with the* A60 *despite the apparent mismatch of 2V output into a 100mV input, however: the former refers to maximum output, the latter to a minimum requirement.*

Video fights back

Q I've had my system — Marantz *CD-52II SE* CD player, Technics *SU-A600* amp, and Mission *760i* speakers — for three months now, and it was excellent until I connected my Philips Nicam video to the amp. Now I keep getting little electric shocks when I touch metal parts.

I asked my dealer who phoned Philips, and they said it's normal for this video to have a current running through its casing. But why is this so? Is there any way of solving the problem?

J Johnson, Liverpool.

A *Some of the items in your system — the CD player and probably the video too — have a detachable figure of eight reversible mains lead. Try reversing the lead to the video and see if there's an improvement. If your system isn't earthed to the mains you could also try running a wire from the earth pin in the mains plug to the grounding post of the amp; with luck your problem should be solved. If you're in any doubt about what to do, consult a qualified electrician.*

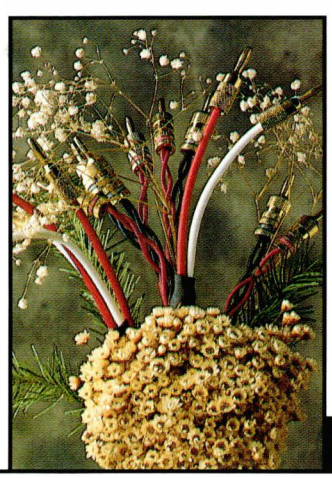
Torn and frayed

Q I have an Arcam *Alpha 5* CD player, Linn analogue interconnects, an Arcam *Delta 290* amplifier and Linn *Index* speakers (old type) connected with Linn *K20* loudspeaker cable. I decided to go for a *Delta 290* having bought an Audiolab *8000A*, as I found the latter's 'neutrality' made CD sound fatiguing.

The Arcam's laid-back presentation is more listenable, though there is some loss of clarity. Would I get an improvement in clarity by changing cables, without losing out and making the system sound more fatiguing?

H Cooper, London.

A *Going for a simple solid core speaker cable, like DNM or perhaps the recently introduced Chord* Flatline, *should improve clarity without introducing too many problems. Of the two,* Flatline *is likely to give the most balanced treble/bass performance, being fuller and less sharp than the DNM. Both should sound cleaner, if less rich, than your Linn* K20.


You can relieve fatiguing hi-fi with a new set of loudspeaker cables.

Rural peacebreaker

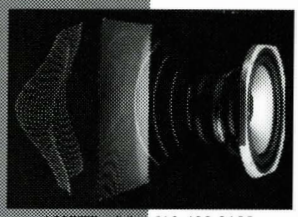
Q I wish to add a CD player to my system, but need one which produces little or no mechanical noise. Over the years, I've tried a number of players from Marantz, Sony, Yamaha, and Technics, but physical noise has marred the performance of each, even though the basic sound was tolerable. I live in a rural setting and tend to play music at low volume levels. Budget is about £600, or slightly more if it the improvement is worthwhile.

P Hodson, Newburn.

A *Players that use Philips-type mechanisms with the swing-arm laser pickup tend to be noisier than machines which use linear-motor-driven pickups. Some players produce a faint swishing/hissing noise while operating, others may give a ticking/clicking sound.*

It's important to realise that physically-clean CDs (no scratches, dust, or thumb-prints on the playing surface) can help reduce mechanical noise. If you treat your discs casually, and allow them to get soiled, expect noise. Pioneer's Stable Platter CD players tend to be pretty quiet, especially the PD-77 *which has a fantastic transport.*

Unfortunately the PD-77 is outside your budget, but you might find a secondhand PD-75 *at the right price. Otherwise, give the* PD-S901 *a try.*



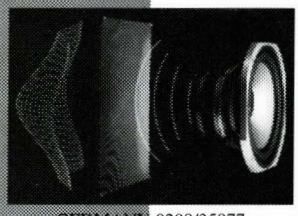
AUSTRALIA 613 429 2199
661 8 346 6444



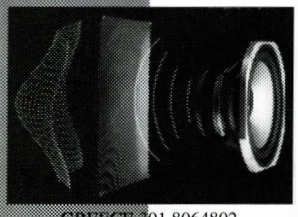
SOUTH AFRICA 333 9735



CANADA 514-691-2584



GERMANY 0208/35977
2961/51640



GREECE 301 8064802



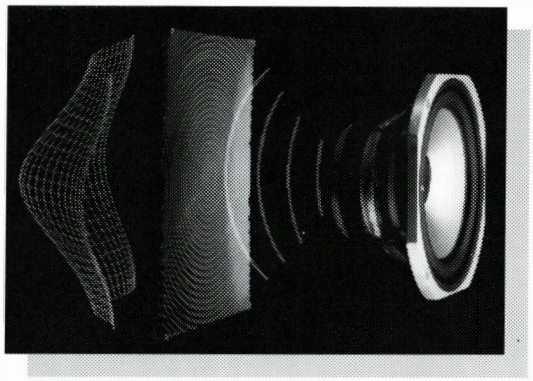
MALAYSIA/ SINGAPORE



SOUTH AMERICA



U.S.A 608-831-3433
415-669-7181



U.K DISTRIBUTOR (0625) 500507

DEFLEX® acoustic PANELS

"…A marked improvement was obvious from the first few bars of REM's *Automatic for the People* album …"
"…Vocals took on an air of presence that was stunning compared to what had gone before …"
"…Rhythm was more definite and seemed to 'glue' the musical experience together …"

Hi Fi News & Record Review - March 1994

"…The special surface pattern reduces standing waves to cure boxiness and resonance without killing the vitality of the sound …"
"…expect tighter cleaner bass, crisper articulation, and an increase in liveliness without loss of control …"
"…The result was sharper imaging, wider dynamics and a more natural sound …"

Hi-Fi Choice - January 1994

"…Deflex panels seemed to give greater tightness and control, improved internal clarity, and better pitch definition – all without deadening the sound in any way …"

Audiophile - January 1994

interested?

For further details and a comprehensive information pack - contact:

Spectra Dynamics
(0745) 571600

Spectra Dynamics Limited, Talargoch Trading Estate, Meliden Road, Dyserth, Clwyd LL18 6DD, Great Britain



Will Rogers speakers prove too laid back with rock music?

Dynamism shortage

Q My system consists of an Arcam *Delta 270* CD player, an Audiolab *8000A* amplifier, Audiolab *8000T* tuner, and Rogers *LS-7* speakers.

Although I am satisfied with the sound of classical music, rock lacks the dynamism that came from the Rogers *LS-4*s and Epos *ES-11*s my dealer used during demonstrations. My 30ft by 12ft listening room is well over twice the size of the demonstration room, and I'm concerned these small speakers would sound inadequate. Would Epos *ES-14*s suit my room better than the *ES-11*s?

L Pettitt, Worcester.

A *It's often the case that dealer demonstration rooms produce a bright, forward sound; the same system used under typical domestic conditions will usually sound richer and warmer. That said, your Audiolab amp and Rogers* LS-7*s are on the smooth and laid back side compared to some amps and speakers. The* ES-14*s could well be the answer, but ask to try them first before committing yourself. The danger is, getting a sharp lively attacking sound for rock might not suit classical music!*

Bass mandate

Q I am going to dedicate a small room to music and, due to limited space, have decided to buy a pair of little speakers. However, I really need the bottom octaves, so a subwoofer would seem mandatory. Having read a recent *Hi-Fi Choice*, the REL *Strata* looks like what I want, but I have no idea of what main speakers to use with the subwoofer.

A Rice, address supplied.

A *Most conventional subwoofers incorporate some form of bass roll-off for the main speakers, to avoid both subwoofer and main speaker system covering the same frequency area. REL subwoofers are different; your main speaker system is fed with a full-range signal and the subwoofer is adjusted to come in below it, filling in the lowest frequencies only.*

You can therefore choose your main speakers by listening and comparing till you hear a sound that pleases. Try a full-sounding small speaker like the Arcam Delta 2*, which gives good bass for its size.*

Rockin' replacement

Q To replace stolen John Bowers *Active One* speakers and a Meridian *MCD* CD player I propose Monitor Audio *MA 1200 II Gold* speakers, a Marantz *CD63* or *CD-72SE* CD player, and a Technics *SU-A900* amplifier. Given the choice of loudspeakers and their 100W maximum power handling, will the Technics amp prove adequate?

I listen to rock and want substantial bass capability, but crisp, clear mid and treble. Any advice on either of the two CD players? The *MCD* sounded great, but the latest Meridians seem pricey these days.

P Denman, Oxford.

A *It's always hard to say how a complete replacement system will fare against a different blend of components, but chances are your proposed system will sit on the warm/full side of neutral. That said, your previous CD and speakers were not among the most lively either.*

The Technics amp has plenty of muscle, unless you're a real headbanger. Try Orelle's CD-480 *CD player against the Marantz models; its livelier, more detailed/dynamic sound should be better for rock.*



Two Musical Fidelity *Typhoons* — a bridge too far?

No pain, plenty gain

Q In issue 128 of *Hi-Fi Choice* I read about a middle-aged Philips *CD-850* being re-clocked. I have such a player and am very interested in this process to transform the sound of my unit — is it painful? If not, can you give me the address or phone number of Trichord Research in the UK?

S J Winders, Holland.

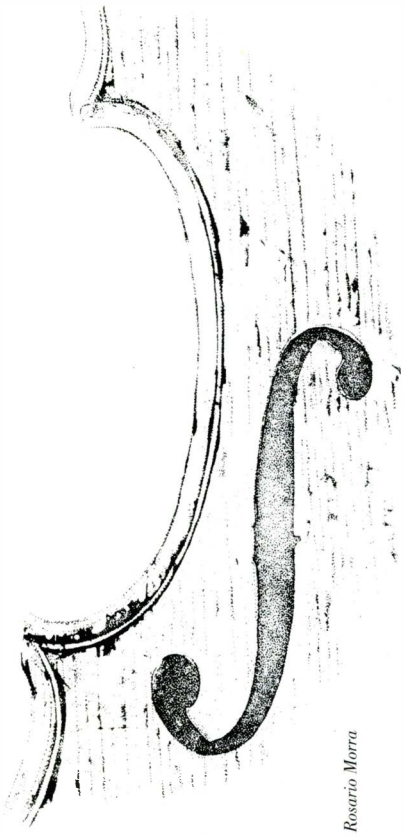
A *It depends on whether spending £140 (probably more, if carriage to and from Holland is included) is painful to you. This is certainly a very cost-effective upgrade for any reasonably decent player. Ring Trichord on (0684) 573524 for details.*

Wind power

Q My system consists of a Meridian *206*ΔΣ CD player, Linn *Axis/Akito* turntable and bi-wired Ruark *Broadsword* speakers with a Musical Fidelity *Typhoon* power amp. I feel the *Typhoon* is struggling to drive the Ruarks, and wonder if adding a second *Typhoon* (as suggested by my dealer) would be the most cost-effective upgrade. Or should I go for another combination, like the Audiolab *8000C/P*?

A Crisp, Dorset.

A *Adding a second* Typhoon *would give you two options: you could go from bi-wiring to bi-amping, driving each half of the speaker separately; or you could bridge them for an increase in power. You'll notice a big increase in liveliness and gain. The sound will seem more dynamic and alive even at low levels. Double bridged* Typhoons *should better the Audiolabs, as well as costing less.*



Guarneri Homage

Sonus Faber's unique acoustic monitor dedicated to the memory of Master Violin Maker Giuseppe Guarneri del Gesù (1698–1744)



Sonus Faber has created a masterpiece. The **Guarneri Homage** is a unique lute-shaped loudspeaker with the strong tonal personality of a Guarneri violin.

Giuseppe Guarneri del Gesù was a master violin maker in **Cremona**, Italy, making a mere 150 instruments. His violins and violas were intensely sculpted acoustic masterpieces characterised by their unique ability to combine tonal strength and body with sweetness. **Sonus Faber** has followed the path of this overriding passion for tonal character in researching its fabulous Guarneri Homage. Each cabinet comprises 42 handsawn pieces of solid wood bonded using organic glues and heat in the manner of the great violin masters. Ten coats of natural varnish give an unsurpassed finish. Mature walnut, maple and lime woods are chosen for their differing strengths and densities permitting fine tuning of the cabinet structure. This is damped internally with copper and lead. A silk dome tweeter with its own solid maple acoustic chamber is integrated with a highly linear mid-bass driver to produce a musical instrument with exceptional extension and dynamics but which retains a uniquely passionate timbre—sweet and accurate. A musical monitor so rare is destined for the discerning. The first pair is installed in the **Violin Hall** in Cremona to replay the sounds of the Amati, Stradivari and Guarneri instruments in that collection. Pairs 2 and 3 are to be presented to the internationally renowned violinists **Salvatore Accardo** and **Uto Ughi**.

Please contact **Absolute Sounds** in the first instance for personal dealer referral to discover the truth and beauty of a real musical instrument. Details of the complete **Sonus Faber** range—including the celebrated **Extrema**, the £898 **Minuetto,** the **Minima Amator**, **Electa** and **Amator** loudspeakers and the **Quid** integrated amplifier are available on request.

Sonus faber®

Absolute Sounds
58 Durham Road · London SW20 0DE
Telephone 081-947 5047
Facsimile 081-879 7962

WRITE ON!

Tell us what you think about hi-fi and music

In support of CDs No. 1

Your letter of the month for June, *The Digital Trade Off*, can't be allowed to pass without comment from Teac as we, rather flatteringly, were singled out as the leading example of digital technology in the letter.

If it isn't the specific CD player (the one mentioned was the Teac *VRDS-10*) but digital technology that is the problem for Mr Bradbury, then why is it that so many 'audiophile' recordings are not only recorded digitally but are also mastered digitally?

Teac can speak on this matter with some authority, being one of the biggest manufacturers of professional digital recorders in the world. Such recordings would surely lack 'feeling' from the start of the process irrespective of the analogue or digital nature of the end user's medium. Surely no one is suggesting that this is the case?

Dave Hatton, Marketing Co-ordinator, Teac UK Ltd.

In support of CDs No. 2

The notion that vinyl sounds "better" than CD is a matter of opinion. True, some people may prefer vinyl, but this is not an indication that it is a more accurate representation of the original sound source; in fact the opposite may be true.

During the recording process, the signal for a vinyl record must be greatly compressed, because the medium simply cannot support the dynamic range required to record most musical sources. Given that compression is often used for effect in some types of recording, it is only natural that the compressed sound of vinyl may be more attractive to some listeners. Because of the mechanical nature of the recording process, there are a considerable number of points in the reproduction process where the audio waveform becomes distorted. But this is harmonic distortion, and may make the sound more appealing. In short, vinyl may sound "better" because it has less accurate reproduction than CD! Anyone of who prefers the sound is a distortion junkie — they just don't realise why they like vinyl.

Brian Adams, senior technician, Educational Computer Unit, County Antrim.

Music to our ears

Recently I was lucky enough to be able to replace my four-year-old budget system. I had a budget of £1,100 and was in need of advice so I turned to *Choice*. I was very sceptical about how much I could improve the sound of my old system, but how wrong I was.

After auditioning a number of separate components in a variety of combinations, I finally settled on a system that sounded fantastic in the listening room; and after adding ballast to the stand, bi-wiring the speakers and using decent interconnects (your advice again) I was ready to go.

What a sound — I really hadn't imagined what I was missing (literally). The stereo imaging, definition, clarity of treble, mid and bass in comparison to my old hi-fi system was as different as a Rolls Royce to a Reliant *Robin*. Now I want to know: how much better does it get?

Chris Dale, Tadley, Hampshire.

Black is black, I want a coloured DAC

I can't understand why manufacturers go for black all the time. It's depressing to look at, and after several days it looks as though it hasn't been dusted for months. I nearly purchased a Marantz CD in champagne gold but it cost an extra £50, so I settled for the *CD52SE* in black only.

Another point I'd like to make is to do with the attitude of some hi-fi shops. I often find that they try to sell you components that they have been stuck with. Also, some can be quite rude if you decide not to make a purchase — I was once told to go home and look through hi-fi magazines to see if I could buy something cheaper in another store.

Very often it is difficult to listen to a lot of components in one listening session, as most hi-fi shops don't have the room; and sometimes it seems if they do get hold of a specific component you have to have it, be it good or bad.

That's what's so good about hi-fi shows, as there is no pressure to buy and you feel very relaxed when listening. Unfortunately, there aren't as many big shows as there used to be.

G A Hewes, Leicester.

Letter of the month

Each month, we're giving away a fabulous Hi-Fi Choice *sweatshirt to the writer of the most interesting letter we receive.*

So get scribbling and send in your views on anything to do with hi-fi or music to: The Editor, Hi-Fi Choice, *19 Bolsover Street, London W1P 7HJ, or send a fax on 071-323 3547.*



Hairy hi-fi

As a reputable hi-fi magazine I believe you should encourage your readers to smoke marijuana. As you hi-fi reviewers are undoubtedly aware, it greatly enhances the listening experience.

A firm round of applause also for your *EAR* publication. It could well fill a niche. But please remain high-end. If I want to look at a £200 amp I can go next door and see my neighbour's. Lots of people buy exotic car magazines not to look at Ladas and Ford Escorts, but to drool over Jaguars and Aston Martins.

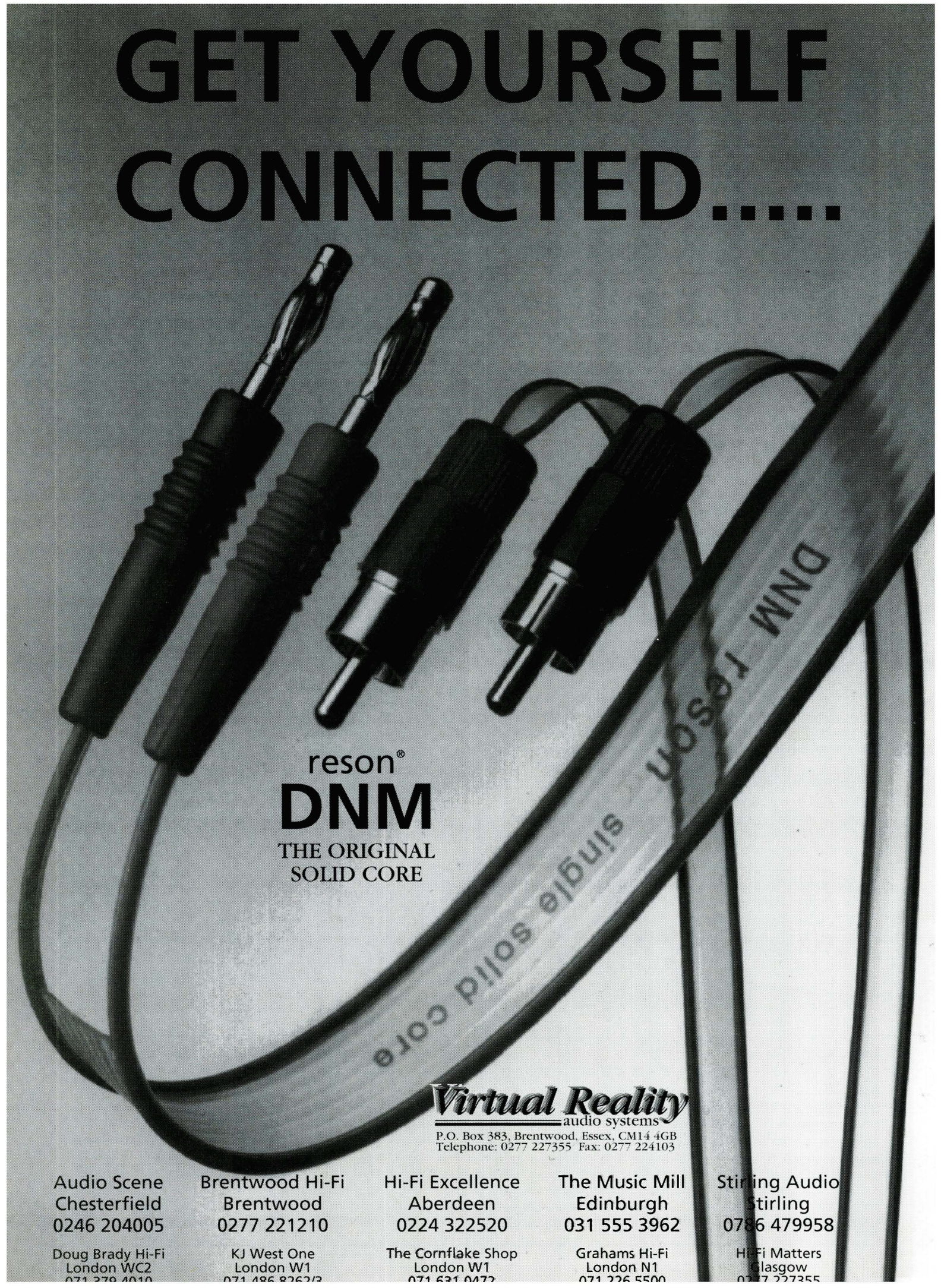
And finally, if this letter wins me a sweatshirt, could I swap it for an Audio Note *Ongaku*? I appreciate the price difference is rather dramatic, but I promise to buy Paul Messenger an Acme Deluxe Beardtrimmer. My son thinks Paul looks like his grandfather. Unfortunately, my son's 42 years old. So how old is Paul?

Bryan Palmer, Derbyshire.



Here's your Ongaku. Paul says he's not much over 21 and a beard trimmer would be lovely.

GET YOURSELF CONNECTED.....



reson®

DNM

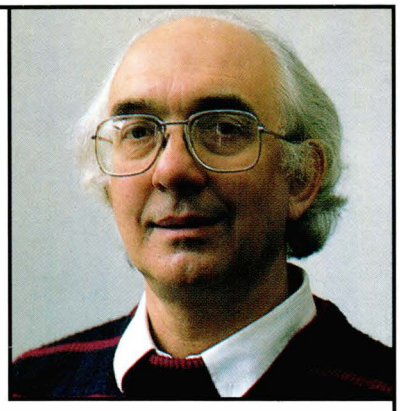
THE ORIGINAL
SOLID CORE

Virtual Reality
audio systems

P.O. Box 383, Brentwood, Essex, CM14 4GB
Telephone: 0277 227355 Fax: 0277 224103

Audio Scene	Brentwood Hi-Fi	Hi-Fi Excellence	The Music Mill	Stirling Audio
Chesterfield	Brentwood	Aberdeen	Edinburgh	Stirling
0246 204005	0277 221210	0224 322520	031 555 3962	0786 479958
Doug Brady Hi-Fi	KJ West One	The Cornflake Shop	Grahams Hi-Fi	Hi-Fi Matters
London WC2	London W1	London W1	London N1	Glasgow
071 379 4010	071 486 8262/3	071 631 0472	071 226 5500	0277 227355

21st Century Fox



Never one to shy away from the awkward questions, Barry Fox ponders the logic behind the self-effacing manual accompanying Sharp's new MiniDisc recorder. He also speaks up in favour of piping down while chewing on the subject of omnipresent muzak.

Sharp' new portable MiniDisc recorder, the *MD-M11* , is scheduled for launch in the UK this July, at a price of around £450. It's very small, but packed with many features, meaning that its functions must be selected and controlled with a few tiny buttons. Each of these serve several different purposes, depending on when and for how long they are pressed.

This wouldn't matter if every piece of domestic electronic equipment had its basic buttons labelled in the same way, and performed basic functions with similar key sequences. But, of course, they do not. Each manufacturer expects the user to learn and remember completely different controls for different machines.

In practice, many people take one look at the instruction manual, lose it and for ever more use only the most basic stop and start controls. They never even know what advanced features are buried inside their high-tech gadgets, let alone use them.

A dedicated minority of people do plough dutifully through the entire instruction book and try out most of the features, but even they will have forgotten all but the basics within a couple of days. The whole point of DCC was that it would be easy to use, because it builds on thirty years of familiarity with the analogue cassette. But I still have to keep the manual for the Philips *DCC900* deck handy, to remind me how to record on part-blank tapes, using arcane functions such as Append Play, Start Marker Write and Reverse Marker Write.

The same is true of AV amplifiers, DSP surround-sound decoders, memory bank equalisers, programmable CD players, timers, alarms, radio and TV tuners, infra-red remote controls and VCRs. All use completely different control logic, depending on the maker.

Compare this with the car industry: although rival manufacturers offer competitive features, the basic driving controls and dashboard lay-out are always the same. When you buy, borrow or hire a car, you can drive it away after only a few minutes' familiarisation.

Likewise personal computer, which use either the Apple Mac or Microsoft DOS/Windows operating system. Once learned, DOS is always useful as the bedrock on which individual PC manufacturers build features and facilities.

But it's still not too late for the electronic industry trade bodies (BREMA, EIA, EIAJ et al) to draft a set of basic recommended control sequences and control labelling for all classes of consumer electronic equipment. Manufacturers could then build their competitive advanced features on top of this basic vocabulary. The public would vote with its feet against manufacturers who ignored the recommendation and used completely different logic.

Bewilderingly honest

Which brings us back to the Sharp *MD-11*. Will UK users get the same instruction manual as their American cousins? The latter is really the most extraordinary document, written as if someone from Philips wanted to highlight all the disadvantages of the MiniDisc system. Every section is peppered with notes and warnings that point up limitations. Here are just two excerpts:

"The display of the remaining disc time may be somewhat different from the actual remaining time..."

"If strange sounds, smell or smoke come out of the unit..."

And that's not to mention a whole page under the the bold heading: "MiniDisc System Limitations"

Another section warns that "when you do this (erase a track that is already recorded), all of the tracks and track names that follow the newly-recorded track will be erased".

Between the lines I read a clear message: Sharp is saying that the MiniDisc standard format could have been much better thought through, if Sony had not been in such a mad rush to get the first-generation players onto the market ahead of DCC.



You need a good memory to keep abreast of domestic electronic devices. Barry Fox still struggles with the Philips *DCC 900* and he's an expert...

Wrigley's Spearmint schtum

On a totally different note, I recently joined Pipedown, "the campaign against piped music". (6 Kingsley Mansions, London W14 9SG.) For an annual subscription of £10 you get the comfort of good company (George Melly, Kingsley Amis, Spike Milligan, John Lill etc), a car sticker, a couple of 'anti-Muzak' signs and a bundle of printed cards which you can give to any pub, restaurant or hotel which inflicts lo-fi piped music on people who would far rather have silence.

The cards all have very polite messages like "Why not turn it off?" or "The lack of piped music offends almost nobody... so please turn it off". Being rude, after having had a meal spoiled by musical drivel or overblown distortion, would usually be counter-productive.

Pipedown might also like to pass on a story about big-band trumpeter Bunny Berigan, told years ago by Al Rose and now reprinted in Miles Kington's *Jazz Anthology* (Harper Collins). Berigan always carried several packets of chewing gum. When he went to a bar for a quiet drink and found there was a jukebox, he would quietly put several sticks of gum in his mouth and wander purposefully to the record machine, to all intents and purposes selecting a song to play. Instead of putting a coin in the slot, however, the trumpeter would pack it full of Wrigley's and push the slide in.

This kept the bar quiet for at least as long as it took to have a couple of drinks.

In the name

Back when King Kong was a box office smash, Alan Blumlein's dream was to produce sound in stereo. Sixty years later, his son Simon continues the family tradition in Petersfield. Alan Sircom uncovers the Blumlein legacy.

Simon Blumlein is the owner of a tiny specialist music shop in Petersfield, Hampshire. This shop stocks all things musical, from sheet music to guitar strings, CDs to boxer shorts printed with musical notes. Upstairs from this musical emporium is a small hi-fi shop, stocking a small selection of quality hi-fi equipment.

So what? Simply that Simon Blumlein is the son of one Alan Dower Blumlein, inventor extraordinare and the man who is widely considered to be the father of stereo.

During his career at the Columbia Gramophone Co, Alan Blumlein developed a magnetic recording system and later, after the company had been merged into the then new Electric & Musical Industries Ltd (EMI) in 1931, he produced a classic patent outlining the basic framework of modern stereo recordings. Blumlein also designed and built equipment to produce the first stereo recordings, some of which exist to this day. The record company Symposium recently presented Simon Blumlein with a stereo 78 recording made by his father in the mid-Thirties.

In his shop, Simon proudly displays a certificate awarded posthumously by the Audio Engineering Society, suggesting that his father's stereophonic work should rank alongside that of other top audio pioneers.

Simon has many wry anecdotes from the Thirties and Forties concerning his father, even though he died when Simon was just six years old. He distinctly remembers those days at the family home in Ealing: "It was a marvellous education, while it lasted. My father had me tapping into the mains when I was six and I was always encouraged to experiment."

His father also cultivated Simon's love for railways, once describing in detail the how the trains shunted in the Guinness factory at Park Royal. In fact, one of the first stereo recordings was made of a train outside the EMI factory in 1933. The memory has stayed with Simon, who is now a veteran member of the Swiss metre-gauge rack and pinion enthusiasts club.

Though he was only a year and a day old, Simon saw the first televised coronation. This was not Elizabeth II in 1952, but George VI in 1937. As he was so young, he can't remember the event, but he does have a certificate signed by a dozen witnesses to prove that he is one of a very select band to have seen more than one coronation on television.

Simon continued in his father's engineering tradition, spending nearly 30 years manufacturing lenses for spectacles before he was made redundant. During this time, he made the gradated reading glasses that, like his ever-present bow-tie, sit permanently on the bridge of his nose.

Having left the world of optics behind him, he spent most of his time browsing through the racks of classical CDs and talking about different methods of recording. One day, his wife turned to him and suggested that as he was so enthusiastic about music, he should make a living from it. Not one to flinch at a challenge, he set up his music shop three and a half years ago. "It couldn't have been a worse time to set up a shop — right in the middle of a recession. But if you can prosper in lean times, it gives you a good grounding for when things get better."

As an owner of a specialist record shop, Simon offers advice to people regarding classical recordings, and often plays discs on his Denon *D-110* system played through Rogers *LS3/5a* speakers in the shop. Many people in the area asked where they could get

Blumlein biography

If the hi-fi industry had an Einstein, it would have been Alan Dower Blumlein. By the time of his death, aged 38, he had been granted 128 patents, in everything from telephony to television, radar to measurement. His house in Ealing sports the only blue 'famous resident' plaque in the area — the only one awarded to a 20th Century electronics engineer.

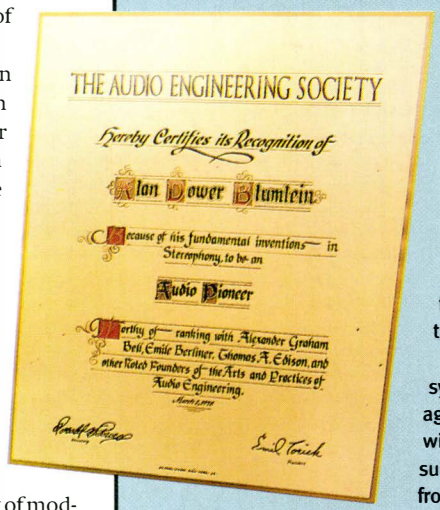
Alan Blumlein died on 7th June 1942 in an air crash. He was flight testing the then new H_2S airborne radar system in a Halifax bomber, when its starboard engine caught fire and burned through the main wing spar.

This airborne radar system was later used against German U-boats with such success that Nazi submarines were removed from active service in the Atlantic conflict.

It is for his pioneering work on stereophonic recording methods that Blumlein will be remembered. His work for EMI in 1930/31 developed the first practical stereo recordings. Keller of Bell Telephone Labs also investigated stereophonic recording, but his system was radically different to Blumlein's — although the system needed far more post-war development before it could be commercially successful, it was Blumlein's ideas that were put into practice in the late 1950s.

He was also heavily involved in the development of EMI's 405-line television, that was adopted by the BBC over the earlier, largely static and mechanical system designed by Baird.

The name of Alan Dower Blumlein is not as well-known as it deserves to be; it should be up there with John Logie Baird and Thomas Alva Edison.


THE AUDIO ENGINEERING SOCIETY

Hereby Certifies its Recognition of

Alan Dower Blumlein

Because of his fundamental inventions in Stereophony, to be an

Audio Pioneer

Worthy of ranking with Alexander Graham Bell, Emile Berliner, Thomas A. Edison, and other Noted Founders of the Arts and Practices of Audio Engineering.

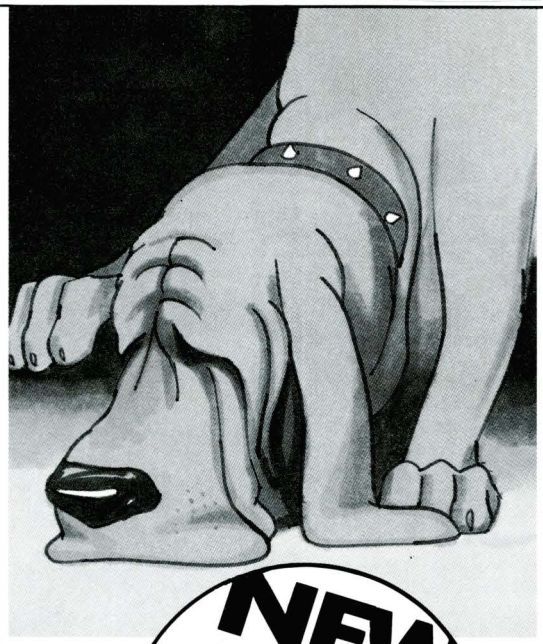




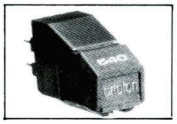
Petersfield's Mr Music, Simon Blumlein is often found relaxing with a tree and a Quad remote control in his demonstration room — when he can get away from his tiny, packed music shop (inset, right).

of the father

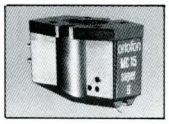
Great tracking



Ortofon is famed the world over for the tracking capability of its cartridges. Cartridges which will breathe new life into a cherished LP collection, divulging detail as never before.
The cartridge is always the key factor in the reproduction of music from records and Ortofon has dedicated nearly 50 years to the manufacture of the finest pick-ups possible. Enjoying constant critical acclaim along the way.
So if you want to bring more out of your records than ever imagined, an Ortofon Cartridge will have you hot on the scent.



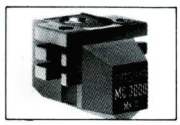
500 Series
Moving magnet cartridges from £30–£100



MC Series
Moving coil cartridges from £60–£110



Q Series
Moving coil cartridges from £140–£500



1000 Series
Moving coil cartridges from £800–£1500

NEW FOR OLD ortofon
Trade in your moving coil cartridge for a new Ortofon model.
25% discount with an Ortofon moving coil cartridge
15% discount with any other moving coil brand.

ortofon

Ortofon (UK) Limited, Chiltern Hill, Chalfont St Peter, Bucks SL9 9UG.
Tel: 0753 889949.

RIVERSIDE HI-FI

422 Richmond Road
East Twickenham
Middlesex TW1 2EB
at the foot of Richmond Bridge
Tel: (081) 892 7613
Fax: (081) 892 7749

OPEN: Mon-Sat 10am-5.30pm
Thursday 10am-7pm
Later by appointment

BADA BONDED

Recommended Systems

System 1	Aura VA 100	£329.95
	Marantz CD83	£249.95
	Mission 761	£299.95
	Mission Stands	£99.95
		£979.80
System 2	Audiolab 8000A	£479.95
	Arcam Delta 270	£799.95
	Castle Chester	£649.95
		£1929.85
System 3	Copland CSA14	£999.95
	Meridian 600	£799.95
	Sonus Faber Minuette	£898.95
	Target R2 Stands	£289.95
		£2988.80
System 4	Musical Fidelity F22	£999.95
	Musical Fidelity FX90	£1099.95
	Muscial Fidelity FCD	£1499.95
	KEF 104.2 Bk Ash	£1595.95
		£5195.80
System 5	Audio Research LS3B	£2250.00
	Audio Research D200	£2800.00
	Audio Research CD1	£3280.00
	Apogee Slant 6	£2400.00
		£10,730.00

Facilities
• fully equipped hi-fi listening rooms • 1 fully equipped home cinema and surround listening room • home installation service • multi room design and installation • export exquiries welcome • 0% and low cost finance facilities available • BADA bonded dealer • 2 year parts and labour guarantee.

Products stocked: Apogee • Arcam • Audio Alchemy • Audio Innovations • Audiolab • Audio Research • Aura • B&O • B&W • Bose • Castle • Classé Audio Copeland • Denon • Exposure • Jadis • KEF • Krell • Marantz • Martin Logan • Meridian • Michell • Micromega • Mission • Monitor Audio • Musical Fidelity • NAD Nakamichi • Pioneer • Project • QED (Systemline) • Quad • Rotel • Suonus Faber • Sony • Tannoy • TDL • Theia • Totem
Accessories from: Audioquest • Beyer • Jecklin • Sennheiser • Stax • Van den Hul



Discover the Quad experience in Simon's main demo/listening room.

such a nice-sounding system and it seemed logical that he should set up a hi-fi department.

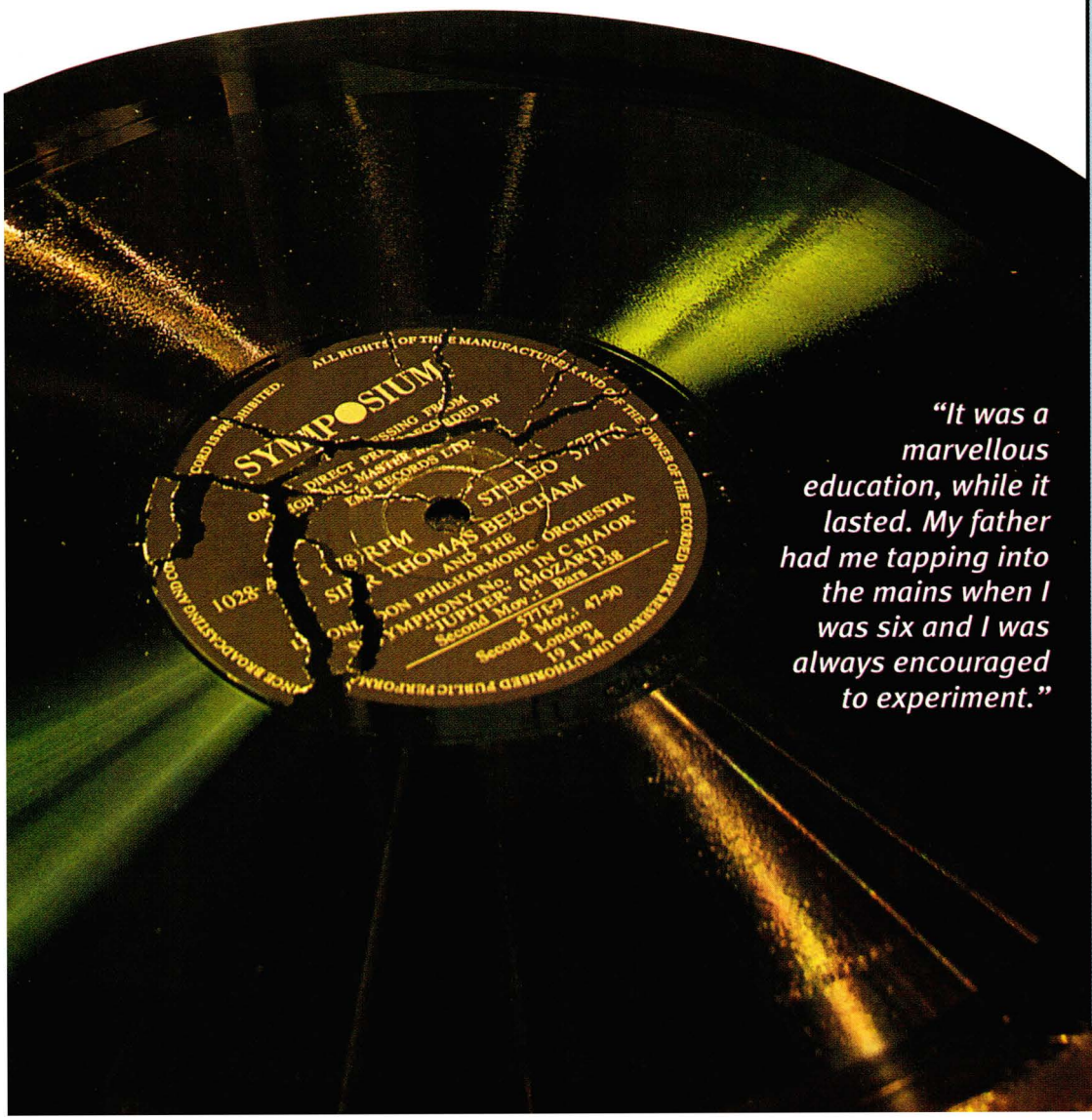
About four months ago, he finally turned two rooms above his tiny music shop into a hi-fi demonstration room. It is still comparatively unsullied by the ravages of hi-fi pretension, stocking the barest minimum of products from Denon, Rotel, Castle, B&W/Nakamichi and Quad.

Blumlein has yet to develop a large hi-fi clientèle, but his band of loyal and avid music collectors are slowly beginning to discover the joys of hi-fi.

As Simon spends about 12 hours a day in his shop, with all the time, energy and music that entails, he seldom has a hi-fi system at home. His main listening system is also in the main demonstration room and comprises a Nakamichi *DR-3* cassette recorder; Quad *67* CD player; *66* tuner and preamplifier; *606* power amplifier and either Quad *ESL-63* or Castle *Howard* speakers, depending on the demonstration schedule.

His stance toward system tweaking is resolutely based on engineering principals. He feels that Peter Belt, green pens and even fancy cables have no valid basis in physics or engineering. This philosophy is reflected in his system which all runs from the same mains plug, with no frills, no valves, no luxuries — just refined, conservative engineering, built to last a lifetime.

On his business card, Simon Blumlein has a logo that demonstrates the original crossed microphone arrangement first developed by his father. It also proudly states "Blumlein — The First Name In Stereo", one of the only claims in hi-fi which is wholly without contention.



This is one of a handful of stereo 78s made by Blumlein Sr. in the 1930s.

"It was a marvellous education, while it lasted. My father had me tapping into the mains when I was six and I was always encouraged to experiment."

A plethora of patents

Alan Blumlein issued (or collaborated on) 128 patents — one for every six weeks of his working life. The patents touched almost every aspect of electronic engineering between the wars. A selection of his more important patents include:

334652, June 1929. Telephone loading and phantoming coil (using the 'closely coupled inductor ratio-arm bridge' technique).

3509984, March 1930 (with HE Holman). Cutting head for gramophone recording (electromagnetic damping arrangement).

394325, December 1931. Stereophonic recording and reproduction (the system description and details of techniques).

425553, September 1933 (with HAM Clark). Negative-feedback power amplifier (with both current and voltage feedback).

429022, October 1933. Stereophonic sound (use of differently spaced microphones for different frequency bands).

448421, September 1934. Cathode follower for increasing input impedance of valve.

456444, February 1935. Arrays of microphones with outputs mixed to give various polar diagrams (these ideas derived from the techniques used in stereophonic sound).

474607, April 1936 (with ELC White). Stabilised HT supply (using series triode).

496883, June 1937. 'Ultralinear' amplifier circuit (screen tapped in on output transformer, to improve linearity).

503555, October 1937. High-definition television system compatible with a low-definition system (a fine spot is used, and carefully synchronised spot wobble allows extra detail to be received on special receivers).

515684, March 1938. Tube with longitudinal slot, used as a slotted aerial or as a feeder.

592503, October 1942 (with ELC White and FC Williams). Radar system for searching (in range) and locking onto any echo found.



CREATIVE AUDIO

9 DOGPOLE, SHREWSBURY, SHROPSHIRE. Fax: (0743)271010 Tel: (0743)241924 (Closed Mondays)



Hobson's choice

It pays to consider all your options – here we have four excellent CD players, each with it's own sonic signature. There is no single blanket "Best Buy" – the correct choice for Mr. Hobson is the player which sounds best to him. He will decide by auditioning them all side by side in our dem–room. This is only possible because our policy has always been to stock competitive products rather than to simply "tow one company line".

**So, when it comes to making that vital upgrade,
will your dealer be offering *you* Hobson's choice?**

Ring us now for a free *CREATIVE AUDIO* information pack

Authorised retailer for:

ARCAM • AUDIOLAB • CELESTION • CYRUS • DENON • EPOS • KEF • MERIDIAN
MISSION • NAIM • QUAD • REGA • ROKSAN • ROTEL • SOUNDSTYLE • TRIPODS

Not to be missed: next month's action packed, bumper issue of

HI-FI CHOICE

THE FINEST HI-FI MAGAZINE IN THE WORLD

Free supplement

Music on the move — just in time for the bank holiday. We suss out the top portables and personals to take on a picnic or to the test match.

Power shower

Eight of the latest affordable amplifiers tested and rated.

Hidden strengths

In search of big sound from small boxes? A satellite/subwoofer outfit could be ideal. On test: four of the best.

Driving ambition

Four in-car systems you'd love to slot in your dashboard. We find out the top gear.



Competition

Sensational Sennheiser giveaway: Your chance to own the headphones of your dreams.

Digital airwaves

Choice takes a look at a new digital radio from Amstrad — just one of the many products up for review in our Sessions pages.

September's issue will be out on sale on Friday, August 12, 1994.

(All contents subject to change because of circumstances beyond our control)

COMPETITION

In this month's great £3,000 competition, you have the chance to win a CD, DAC, amps or speakers from Perivale's finest hi-fi manufacturer, Orelle.

Orelle is one of the champions of high-end hi-fi without high-end price tags. We have split the system you see on the right into four parts, so that several of you have the chance to hear what Orelle components are all about. The first correct set of answers out of the hat will win Orelle's top-flight £899 *CD-260* integrated CD player. Based around Philips multi-bit technology, the *CD-260* features no less than 15 regulated power supplies. The next name out will receive the *DA-180* digital converter. This £599 18-bit, eight times oversampling converter is considered by some to be one of the best converters, regardless of price. Like all Orelle's digital components, the *DA-180* uses independent transformers for the analogue and digital power supplies.

The third lucky winner will get the £399 *SC-200* stereo preamplifier and an *SP-150* stereo power amplifier, valued at £499. The *SC-200* is a seven input preamp, with moving coil and moving magnet options for vinyl users. The *SC-200* features Holco precision resistors and silver plated switches. The 75watt *SP-150* uses polypropylene capacitors, metal film resistors and van den Hul internal wiring.

Finally, you could win a pair of the £699 *Orator* two-way bass reflex loudspeakers, in black ash. These use a 25mm soft dome tweeter with a 170mm woofer, making for a speaker that is 88dB efficient, yet can still deliver bass down to 35Hz.

1. What chipset is used in the CD-260?
a) MASH
b) Philips BitStream
c) Philips Multi-bit
d) Crinkle-cut

2. Where is Orelle based?
a) Perivale
b) Portsmouth
c) Petersfield
d) Pinner

3. How many watts does the SP-150 deliver?
a) 150w
b) 60w
c) 100w
d) 75w

4. What kind of tweeter does the Orator use?
a) titanium dome
b) metal dome
c) soft dome
d) pleasure dome

5. What internal wiring is used in the stere power amplifier?
a) van der Valk
b) Cardas
c) van den Hul
d) Audio Note



How to enter

To win one of these superb prizes, simply write the answers to the five questions on the left on the back of a postcard, or sealed-down envelope. Please do not seal the answers within the envelope.

Send your completed entries to: Orelle Competition (HFC408), *Hi-Fi Choice*, Tower Publishing Services Ltd, Tower House, Sovereign Park, Market Harborough, Leicestershire LE87 4AU.

Entries must be received no later than first post on Monday, 22nd August, 1994.



Competition rules:
The Editor's decision is final and no correspondence will be entered into. All winners will be notified by post. The competition is not open to employees of Dennis Publishing Ltd, Orelle hi-fi, their suppliers, agents or associates. We regret that the competition is open to UK residents only. No cash alternative will be offered. Submission of entry will be taken as proof of receipt. Please notify us if you do not wish to be informed of any other special offers or promotions from *Hi-Fi Choice*.



the Arcam Delta system

Close your eyes and see Arcam's Delta system of state-of-the-art hi-fi components.

Ignore the fact that the Delta 290 is our finest integrated amplifier, the recipient of a coveted Design and Engineering Award from the world's pre-eminent consumer electronics show, the Chicago CES. Don't be swayed just because the UK hi-fi press agree, giving it "a compelling and enthusiastic Recommendation" [1] and describing it as "an amplifier with real clout, able to deal with virtually any level of musical complexity". [2]

Next cast a jaundiced eye on the Delta 280 tuner. Again, disregard the pleasing aesthetics and the convenience of remote control*. Don't even be led by reviews revering its sound as "lucid", "warm" and "attractively open". [3]

Then, visit your scepticism on the Delta 270 CD player. "Solidly built", it "strikes a balance between smoothness and punch" to gain a class leading, 5 star recommendation. [4]

If that's not enough, take a sideways look at our remarkable two-box CD player, the Delta 250 CD transport and Black Box 50 DAC. "To justify their significant cost, two-box systems really have to offer that little bit extra in terms of sound quality; but Arcam's combination does just that - and more". [5]

Next, move on to the Delta 100 cassette deck. Try to dismiss once again its 1992 Chicago CES award and the reviewer who gushed, "In the beginning, I called for a round of applause for Arcam's bravery in producing a British-made cassette deck. At the end, I'm asking for a standing ovation". [6]

Finally, muster up your best disinterest for the "extraordinarily well engineered" [7] Delta 2 loudspeakers, "a firm, positive sounding design with bold bass and mid and a firm grip on the musical architecture". [8]

In fact, ignore everything anyone else tells you. Ignore even what your eyes tell you is true. Just let your ears decide.

Just listen. Close your eyes, open your mind, and see the light.

1. Hi-Fi Choice. March 1993. 2. Audiophile. February 1993. 3. Audiophile. April 1993. 4. What Hi-Fi? Awards issue 1993. 5. What Hi-Fi?. November 1993. 6. Hi-Fi World. April 1992. 7. What Hi-Fi? Awards, 1991. 8. Hi-Fi News Buyers Guide. November 1993.
* CR200 System Remote Control handset to operate all the electronics listed here is an optional extra

ARCAM

For your free copy of our brand-new 'Soundscapes' brochure with full details of the Arcam Delta range and the name of your nearest dealer, complete and return this coupon to us. In addition, if you would like independent reviews of any of our hi-fi equipment, please state which products and we'll be happy to send you the relevant material. Arcam, Pembroke Avenue, Waterbeach, Cambridge CB5 9PB. Or telephone: (0223) 440964 (24 hours)

I am interested in reviews on (please state product(s)): _____

Title _____ First Name(s) _____ Surname _____

Address _____ Postcode _____

In Australia: Silver Australia Pty Ltd., 4 Rushdale St., Scoresby 3179, Victoria Tel: (613) 7630177 In Canada: Avalon Audio Ltd. 101 Hanlan Rd., Woodbridge, Ontario L4L 3P5 Tel: (416) 850 7511 In New Zealand: Avalon Audio, PO Box 5373, 119 Wellesley St., Auckland Tel: (649) 779351 In South Africa: Hi Fi Installations, 134A Fox St., Johannesburg, 2001 Tel: (2711) 3312011In the USA: Audio Influx Corporation, PO Box 381, Highland Lakes, New Jersey 07 422-0381 Tel: (201) 764 8958

SPECIAL OFFER

GET 40% OFF WHEN YOU SUBSCRIBE TO HI-FI CHOICE AND CLAIM YOUR FREE SWEATSHIRT

Why pay £2.95 for your copy of Hi-Fi Choice each month when you could pay as little as £1.78? By taking out a one year subscription to Hi-Fi Choice you will get 29% off the cover price, and if you subscribe for 2 years, you will save a staggering 40%

Hi-Fi Choice is your only choice. Its rigorous blind test proceedures are both revered and feared by hi-fi manufacturers everywhere. And no other hi-fi guide contains as many pages of invaluable hints, tips – and buying advice too. That's why it's such an essential read when the time comes for replacing, upgrading or expanding your hi-fi system.

Reading the number 1 magazine will make sure you're kept up to date with what's happening and a subscription will save you money – you can save up to 40% of the normal price whan you subscribe, and your copy will be delivered right to your door.



And we'll not only give you up to a staggering 40% discount, we'll also send you a FREE Hi-Fi Choice sweatshirt.

If you subscribe to Hi-Fi Choice TODAY we'll send you a free Hi-Fi Choice sweatshirt. This tasteful garment is worth £15 and is supplied in extra large – it's what the serious hi-fi buyer around town is wearing this season!

Subscribe to Hi-Fi Choice and you'll:

- Have Hi-Fi Choice delivered to your door every month
- Get up to a 40% off the normal price
- Receive a FREE Hi-Fi Choice designer sweatshirt
- Get to impress your friends with your vast and up to the minute knowlege

PAY THE EASY WAY & PAY LESS!
Paying for your subscription by direct debit is the hassle free way. For a limited period any subscriber who pays by direct debit gets £2 off the normal subscription price.

THIS OFFER WON'T BE REPEATED, SO SUBSCRIBE NOW!
PHONE OUR CREDIT CARD HOTLINE ON 0858 468888

HOW TO SUBSCRIBE

Fill in the coupon, and send it with payment to Hi-Fi Choice Subscriptions, FREEPOST WD7, Leicestershire LE87 4AU. (Postage is FREE if posted in the UK)

OVERSEAS READERS, please post to Hi-Fi Choice Subscriptions, Tower House, Sovereign Park, Market Harborough, Leicestershire LE16 9EF

Or try the instant subscription!
• Fax our credit card line

0858 434958

YES, I'D LIKE TO SUBSCRIBE TO HI-FI CHOICE

Please start my subscription from the next available issue

2 years (£1.78 an issue) ☐ UK £42.50 ☐ Euro £68.00 ☐ World £89.50

1 year (£2.08 an issue) ☐ UK £25.00 ☐ Euro £39.00 ☐ World £51.50

1 year (1.92 an issue) ☐ UK £23.00 - payment by direct debit (UK only)

☐ I am an existing subscriber so please extend my current subscription

Please indicate your preferred method of payment:

1 ☐ I WOULD LIKE TO PAY BY DIRECT DEBIT AND SAVE A FURTHER £2

Instructions to your bank to make payment from your account.
(please complete parts **(i)** and **(ii)** below)

(i) Your bank details: Bank's name _____

Bank's address _____

Postcode _____

Account number |__|__|__|__|__|__|__|__|

Bank sort code |__|__| |__|__| |__|__|

Name of account holder _____

(ii) Your instructions to your bank and your signature

- I/We instruct you to pay direct debits from my/our account at the request of Dennis Publishing Ltd.
- The amounts are variable and may be debited on various dates.
- I/We understand that Dennis Publishing Ltd may change the amounts and dates only after giving prior notice.
- I/We will inform the bank in writing if I/we wish to cancel this instruction.
- If any direct debit is paid which breaks the terms of these instructions the bank will make a full refund.

Your signature(s) _____

Date _____ Originator's identification no. **724680**

NB. Banks may refuse to accept instructions from some types of account. No acknowledgement required.

2 ☐ I ENCLOSE A CHEQUE/POSTAL ORDER FOR £_____
made payable to *Dennis Publishing Ltd. - Hi-Fi Choice*

3 ☐ PLEASE CHARGE MY ☐ Visa ☐ Access / Mastercard

Card number |__|__|__|__| |__|__|__|__| |__|__|__|__| |__|__|__|__|

Expiry date |__|__| |__|__| Date _____

Signature _____

Mr/Ms Surname _____ Initials _____

Company/home address _____

_____

Postcode _____

Home/business tel: _____

☐ Please tick here if you do not wish to receive details of further special offers or new products.

PD408

Post to:
Hi-Fi Choice Subscriptions,
FREEPOST WD7,
Leicestershire LE87 4AU

HI-FI CHOICE

We blow our own trumpet

So you can play our Cornet's

We have spent the past 25 years developing loudspeakers to meet the demands of the most discerning consumer and with the Cornet range we have created a series with a stylish timeless design. The technical excellence within the loudspeakers allows for the production of light, transparent and perfectly uncoloured sound.

The Cornet Range - The Total Listening Experience



jamo

"The Sound of Excellence"

Jamo

Blowing Trumpets

DEALER	TOWN	TELEPHONE
Andys Electronics	Muswell Hill	(081) 8838969
Audio Vision Services	Fordingbridge	(0423) 654488
Audiocraft	Northampton	(0804) 36291
B&B HiFi	Reading	(0734) 583730
Barnstaple Sony Centre	Barnstaple	(0271) 45429
Barretts	Ashford	(0233) 629119
Barretts of Canterbury	Canterbury	(0227) 767576
Camberley Sony Centre	Camberley	(0276) 682000
Capital Cameras	Crawley	(0293) 543555
Carvells	Hinckley	(0445) 239390
Cashes	Cork	(021) 276771
Caters	Brownhills	(0543) 373168
Chesterfield Co-op	Chesterfield	(0246) 220200
Chris Pettit	Grantham	(0476) 593464
Churchers	Worthing	(0903) 821595
Collingwood Radio	Barnstead	(0737) 351365
D.Eckersley	Gr. Manchester	(0942) 882235
Dawson	Bournemouth	(0202) 764965
Derann Audio Visual	Dudley	(0384) 233191
Empire Electro Centre	Leeds	(0532) 351701
Eric Hamilton HiFi	Glasgow	(041)946218
Eric Wiley	Castleford	(0977) 553066
Exeter Sony Centre	Exeter	(0392) 79889
Gibbs Electrical	Southampton	(0703) 772475
Goodwins	Wood Green	(081) 8880077
Hamiltons	Southampton	(0703) 228622
Hawksworth & Wheeler	Folkestone	(0303) 255688
Hi Fi Confidential	London SW1	(071) 2330774
Hi Fi Surplus	London W1	(071) 9357582
Hi Fi Confidentail	London W1	(071) 5807468
Horsham Sony Centre	Horsham	(0403) 255432
Howes of South Borough	Tunbridge Wells	(0892) 537288
J.G. Windows	Newcastle	(091) 2321356
Johnny Roadhouse	Manchester	(061) 2733069
Kerco Electronics	London W12	(081) 7433698
Kimberleys	Bexley Heath	(081) 3043272
Lisnasure Interiors	Dromore Co. Down	(0762) 551628
Mannerings & Son	South Harrow	(081) 4222070
Merrow Sound	Maidenhead	(0628) 770622
Micro World	London W1	(071) 4361408
Millers Music Centre	Cambridge	(0223) 354452
Mobile Radio	Wellingborough	(0933) 223527
Musical Images	Hounslow	(081) 5695802
Musical Images	Edgware	(081) 9525535
PR Sounds	Trowbridge	(0225) 777799
Pennine TV	Keighley	(0535) 607593
Ownes	Colwyn Bay	(0492) 530015
Peter Ellis Audio	Newark	(0636) 704571
Peter Martin	Congleton	(0260) 273206
Plymouth Audio Visual	Plymouth	(0752) 262976
Practical HiFi	Bolton	(0204) 395789
RK Holman	Wimbourne	(0202) 882785
Radio Lux	Watford	(0923) 228734
Readyvision	Huddersfield	(0484) 532294
Rightway	London W2	(071) 7237995
Roy Townsend	Stafford	(0785) 43669
Roystons	Nuneaton	(0203) 385489
SMC Trading	Shrewsbury	(0743) 232317
Smythe & Barne	Eastbourne	(0323) 729192
Sound Deals	Preston	(0772) 796108
Sounds Incorporated	Ponefract	(0977) 791215
Telefringe	Frome	(0373) 462598
Telescene	Nottingham	(0602) 291665
The Music Station	Inverness	(0463) 225523
The Stereo Shack	Leicester	(0533) 530330
Thilwall & Allan	Basingstoke	(0256) 21228
Todds	Limerick	(061) 417222
TV Centre	Redhill	(0737) 765985
Unique Systems	Ashdon	(061) 3431852
Westgate Audio	Bradford	(0274) 732947
Weybridge Audio	Weybridge	(0932) 851121
Wilkinson HiFi	Nelson	(0282) 612901
Zeus Audio	Belfast	(0232) 332522
Pan International Comp	HONG KONG	(852) 8891989
Excel Venture Trad.Co.	SINGAPORE	(65) 3832200
Taiwan Audio Trad.Co.	TAIWAN	(886) 42237609
Scan Audio	AUSTRALIA	(61) 38196352
Jamo HIFI USA Inc	USA	(1) 7084984848
Jamo UK Ltd	Daventry	(0327) 301300

Jamo

"The Sound of Excellence"

Li

The way we go on.... you'd think we knew what we're talking about

Listen Inn

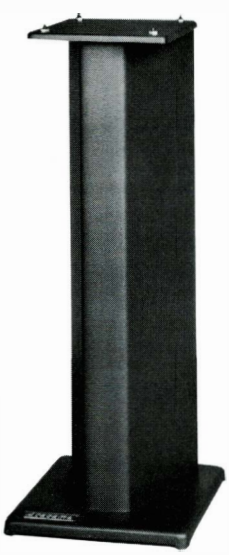
Hi-Fi Specialists

Linn, Naim, Rega, Epos, Heybrook, TDL, Arcam, Mission, Royd, Audiolab, Creek, Cyrus, Denon, NAD, Marantz, Kef, Nakamichi, Dynaudio (Not all brands stocked at both branches)

6 Hotel Street, Leicester
0533 623754

32 Gold Street, Northampton
0604 37871

Atacama Audio



Atacama SE24

"Sometimes you've just got to take a stand, especially when it makes the music sound as good as Atacamas"

What Hi-Fi Jan 1994

Manufactured by

SAMBELL ENGINEERING LIMITED
Winston Avenue • Croft • Leicester LE9 3GQ
Telephone Sutton Elms 0455 283251 Fax 0455 283908

Infidelity

indecently good hi-fi



Buying hi-fi should be fun, we guarantee to make it so. Listen to a well chosen selection of quality hi-fi equipment in our comfortable and relaxed listening room. Bring along your own records or CDs, we'll provide the coffee, and hear the difference we can make to your enjoyment of music.

NAIM's excellent new CD3 CD Player now on demonstration

ARCAM, EPOS, HEYBROOK, MICROMEGA, NAIM, NAKAMICHI, NEAT, REGA, ROKSAN, ROTEL, ROYD, SHAHINIAN and TEAC

9 High Street, Hampton Wick, Kingston upon Thames, Surrey KT1 4DA
Telephone: 081-943 3530. Open: Tues - Fri 10.30am - 7pm, Saturday 10am - 6pm.

CD transports and DACs



The cast list

ARCAM *DELTA 250/BLACK BOX 50*	£750/£450
DPA *DIGITAL T1/PDM TWO FIFTY-SIX*	£895/£2995
MERIDIAN *500/563*	£975/£695
MISSION CYRUS *DISCMASTER/DACMASTER*	£1900
MONARCHY AUDIO *DT-40A/M-33*	£1595/£1495
PS AUDIO *LAMBDA/ULTRALINK TWO*	£2250/£2650
TEAC *P-2S/D-2*	£3500/£2500
THETA *DATA BASIC/COBALT 307*	£1997/£699

Top digital expert Paul Miller introduces the latest CD transport and DAC combinations culled from a single manufacturer and explains how he tests them.

Over the past few years, our tests have reflected the diversification of modern digital audio, which has branched out from the integrated CD player to encompass separate CD transports, outboard converters (DACs), digital interconnects and (on page 58), the likes of recordable CD, DCC, DAT and MiniDisc.

Nevertheless, when reviewing CD transports and outboard converters, for example, it's always possible to miss a truly

Are two boxes always better than one?

A conventional single-box CD player is, from a digit's point of view, a very noisy place. A place where many separate digital and analogue processes are taking place simultaneously, interfering with one another by cross-coupling through common power supplies, circuit boards and enclosures. This interference can contribute to jitter (a blurring of transitions in the data) which, in turn, only increases the muddying of the music.

A two-box player seeks to lessen any such interference by placing laser assembly, focus, tracking servos and decoder functions in one box, isoalted from the oversampling, DAC and analogue filtering circuitry in another. Neat idea. However, before the data is squirted from CD transport to DAC, it must be altered from the standard language of I2S to S/PDIF (Sony/Philips Digital Interface Format).

Once captured by the DAC, this data is then translated back into I2S, having already recovered both the original data and clock signals. Naturally, a single-box player avoids all this malarkey and thus avoids yet another potential source of jitter or, in the worse case, corrupted data.

Two-box players are no panacea but simply an alternative method of skinning a compact disc.

symbiotic relationship — that ideal match between a transport and a DAC. So where better than to continue our search by returning to the genuine two-box CD player, where both transport and DAC hail from the same manufacturer? In theory at least, this represents a digital marriage made in heaven.

In certain cases we've covered one or more of these components previously, in isolation, for example Arcam's *Black Box 50* with its hybrid converter and Sync Lock facility, and the matching *Delta 250* transport. Up to this point, the pair have never met on the reviewing field.

Provided each transport and DAC conforms to IEC958 (a standard for digital inputs and outputs), no single transport/DAC combination should be any more 'compatible' than another. In practice, though, it's not uncommon for manufacturers to engineer a quirk or two, loading the dice in favour of their own separates. Features and facilities, however, remain quite unaffected. As a result there's no reason why a two-box CD player shouldn't offer the same options as a conventional integrated CD player.

In practice, the exotic combinations on test rarely match the feature-count of a well-specified mid-price Japanese CD player, but they do offer one special widget that's rarely encountered on the single-boxers: the phase-invert switch.

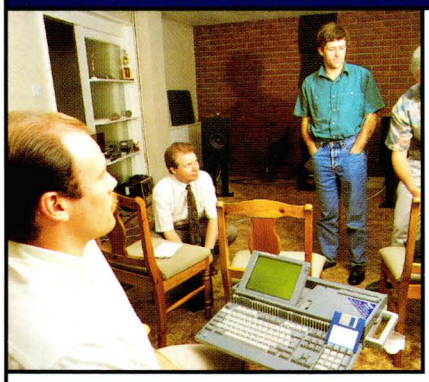
Phase inversion is accomplished by changing each digital one for a digital zero (and vice-versa) within the DAC. It has the same effect as swapping over black and red loudspeaker leads, reversing the motion of the speaker cone note by note. Depending on your choice of speakers, the absolute phase of your amplifier and the relative phase of different instruments within a multi-miked recording, you'll find some CD tracks sound better 'phase-positive', and others 'phase-inverted'.

We've assembled eight of the latest two-box players from what is both a restricted and eclectic field. After all, many more manufacturers churn-out D/A converters for the upgrade market than produce fully-fledged transport/DAC duos for the well-heeled enthusiast.

This is because Philips' Red Book licensing agreement only covers the CD mechanism, not how the digital data is manipulated once it's been recovered.

Furthermore, all facets of basic CD technology are represented in equal measure, including examples of Far Eastern three-beam and European single-beam laser transports. We've various bitstream, 18-bit, 20-bit and hybrid DAC technologies on offer too, together with a full gallery of different electrical and optical digital interconnections. A digital panorama that brings our coverage of the CD market bang up to date.

What the laboratory tests mean



In accordance with our usual procedure for CD players, each of these transport/DAC combinations was warmed up for a minimum of 72 hours before being auditioned under strict, blind conditions. Each one was evaluated using a broad repertoire of classical, jazz, folk and pop vocal music, with each and every track adjusted to a predetermined listening level.

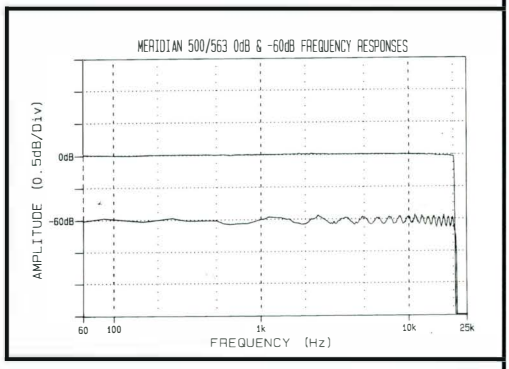
Where one was supplied, we used the preferred digital interconnect of each manufacturer or distributor; otherwise we reverted to both Goldmund *Lineal* and Audioquest *Video Z* interconnects (established favourites from our cables supplements, issues 108 and 131) or, where appropriate, Toslink optical links from Furukawa and Monster.

The remainder of the system comprised updated versions of the DPA *100S* pre/power combination, Audio Note *AN-E/B* and REL *Stentor* (subwoofer) loudspeakers. Remember, *Hi-Fi Choice* remains the only magazine which regularly employs an impartial panel who audition equipment unaware of its origins. As a result, we are able to judge sound quality without preconceptions. Thanks are due to Neil Burt (Rogers), Guy Sargeant (Audio Innovations) and Alan Sircom (*Hi-Fi Choice*) for their participation in this month's test.

Understanding the frequency response plot

This graph demonstrates the response of the player at both peak level (0dB, upper trace) and at a low level (-60dB, lower trace). Ideally, the upper and lower responses should match one another, but in this case changes in linearity and noise are revealed by a change in the smoothness and extension of the lower, -60dB trace. Our example plot (from the Meridian 500/563) demonstrates an obvious change between high and low-level responses.

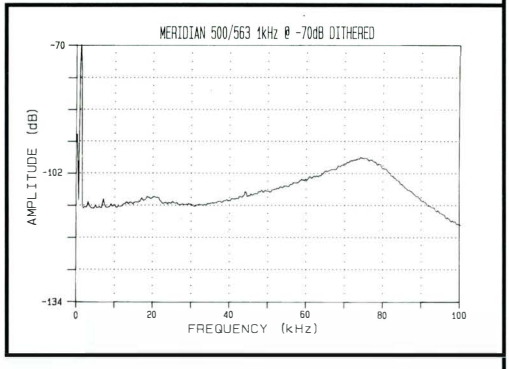
Ripples in either response are often due to the oversampling filter, though bolder ripples on the low-level trace may be indicative of undesirable cross-coupling within the player.



Understanding the dithered -70dB/1kHz plot

Dither is used to swop predictable harmonic distortions for a slight increase in noise through the audio band (0-20kHz). Look out for a hump of ultrasonic noise beyond 20kHz on this plot (taken from the review of Meridian's *500/563)*. This is a feature of many bitstream DACs whose noise-shapers are used to re-distribute huge levels of re-quantisation noise.

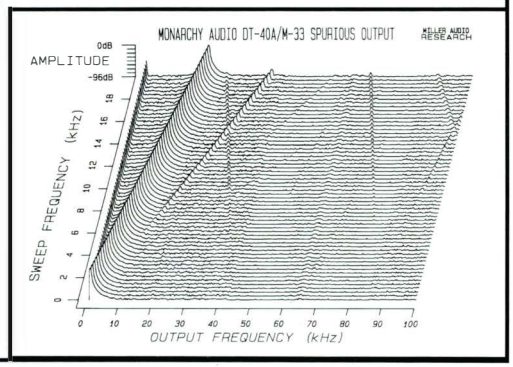
Traditional multi-bit DACs are often 'cleaner' above 20kHz and, as a result, often perform far more consistently when partnered with different amplifiers.



Understanding the 3D spurious output plot

Distortion and sampling images are most graphically illustrated on the 3D plots. Here an audio frequency sweep (20Hz-20kHz) reveals continuous changes in performance rather than at one frequency. Our example plot (from the Monarchy *DT40a/DIP M33*) shows 2nd and 3rd harmonic distortions radiating out to the right of the main sweep.

In addition, sampling or stopband images are represented as whole or partial V-shaped patterns, centred on multiples of the 44.1kHz sample rate. These digital distortions are indirectly audible, through there are other types of distortion that may, or may not, be audible through the amplifier used to partner the CD player itself in the context of a system.



ARCAM DELTA 250/BLACK BOX 50



Expressive and sophiticated: the *Delta 250/ Black Box 50* is a great combination.

Slowly but surely, each successive generation of Arcam's CD transport and *Black Box* converter has witnessed some modest improvement. But five generations later those incremental upgrades have culminated in something very significant indeed; the *Delta 250* transport and *Black Box 50* converter.

Naturally, we've already covered both products in isolation where they achieved a Recommendation and Best Buy en route (issues 130 and 127). Nevertheless, it's only when put together that Arcam's proprietary Sync Lock facility comes into full effect, tying the flow of data within the *D250* to a single master clock situated in Arcam's *BB50*.

This clock feed takes the form of a 2.8224MHz signal, squirted between the *BB50* and *D250* via an optical fibre, synchronising the 'timing' of data as it travels from transport to DAC. Digital jitter and analogue distortion are both reduced as a result. Sadly, Arcam's Sync facility is not compatible with other like-minded links from DPA, Linn, Mission or Audio Synthesis.

None of this influences the standard track access, program, repeat and search facilities offered by the *D250*, nor the phase-invert widget provided on the *BB50*. Flexibility without complexity — that's the key to this sober-looking partnership from Arcam.

Sound quality

Building upon its performance in issue 127, where it was described as inviting but measured and sure-footed, the *BB50* was likened to a bigger but more refined version of Mission's *Disc/Dacmaster*. Now its neutral and even-handed balance revealed the earthy bass line of Mary-Chapin Carpenter's *Never Had It So Good* as effectively as it did the delicate, fluttering percussion that accompanies Lyle Lovett through another favourite track, *Good Intentions*.

Whatever the style, its music always comes across with a great sense of relaxed clarity, providing a real insight into the colour and conviction of different instruments without appearing heavy-handed. It's a good example of a player that sounds smooth and sophisticated but manages to avoid sounding sugar-coated.

So the backing piano from Lyle Lovett's CD jumped out with great confidence just as the close harmonies were nimbly separated — two feats of resolution achieved with forcefulness. My only criticisms are of a hint of edginess with powerful strings and vocals but, according to the panel, it is a very minor quibble.

Conclusion

In issue 127, we suggested that Arcam's *Black Box 50* provides a bedrock to sow upgrades above and beyond the capacity of budget CD players and CD transports. The partnership with Arcam's own *Delta 250* proves this was no idle speculation but simply a foretaste of the capabilities of a truly sympathetic pairing.

Clearly, in tandem with the *Delta 250*, the expressiveness of the *BB50* is brought to the fore while the restraining influence of the Sync Lock prevents its enthusiasm from raging unchecked. It's a fabulous combination and fully deserving of its Best Buy accolade.

VERDICT

- **Poised, detailed and weighty sound; affordable.**
- **Lacks smoothness; treble has a rather dull balance and bass is a little detached.**

SOUND ★★★★½

VALUE ★★★★★

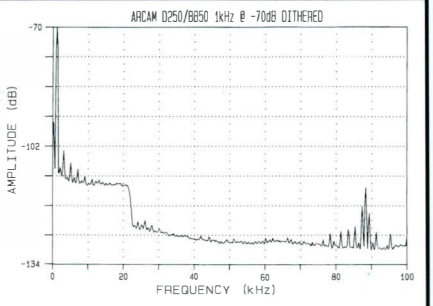
PRICE £750/450

Arcam, Pembroke Avenue, Denny Industrial Centre, Waterbeach, Cambridge CB5 9PB.
(0223) 440964

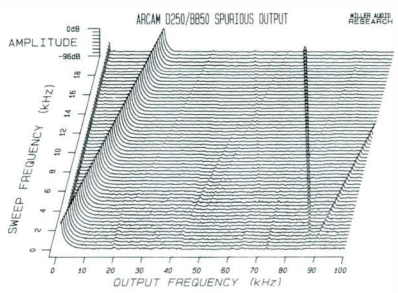
LAB REPORT

Comparisons with the *BB50* from issue 127 prove interesting. In this case, the measurements were repeated with Arcam's Sync Lock facility engaged. This causes a slight increase in ultrasonic noise which masks the digital IM patterns otherwise visible on the 3D plot. It also bumps-up the perceived peak-level distortion at 20kHz from 0.006 to 0.022 per cent.

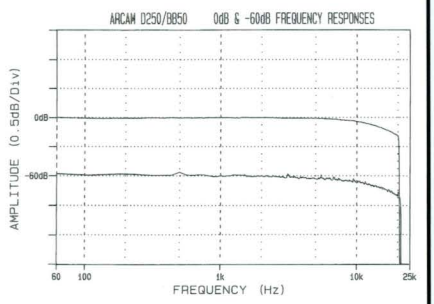
Moreover, though there's no appreciable change in either its 103dB signal-to-noise ratio or +4dB noise modulation, improvements are witnessed in both low-level distortion, linearity and random (noise-like) jitter. Aside from these low-level variations, the *BB50* remains a typical example of Burr-Brown's PCM69 in action.



Odd harmonics are generated by errors in the multi-bit section of the hybrid DAC, as can be seen in the dithered plot above.



Clock interference patterns seen in issue 127 are reduced with Arcam's Sync Lock, fully effective in the *D250/BB50* combo.



The Arcam *BB50* uses the same eight times filter and analogue stage as the *BB5* and has same response curve as well.

DPA Digital T1/PDM Two Fifty-Six

No strangers to digital innovation, DPA has recently upped the stakes with two new digital-to-analogue converters. Both feature a discrete switched-capacitor network known as the DX64 processor together with an adjustable dither facility.

The least expensive of the two, though far from affordable, is the *PDM Two Fifty-Six (256)*, a novel converter whose analogue and digital circuits are powered-up via two external supplies. Combined with DPA's *T1* transport (issue 120), this amounts to a four-box CD player!

The transport is based around a shielded version of the Marantz *CD42* with a revised and re-clocked digital output and optional Deltran facility. For details of Deltran, see also Arcam's Sync Lock feature.

The *PDM256*, however, is a tour-de-force of advanced engineering. Here, digital data is passed, in differential form, to four separate YSF210 eight times oversampling filters which each receive a dither signal from four FPGAs (Field-Programmable Gate Array).

You can add dither to the 15th, 14th, 13th or 12th bit of audio data according to taste, trading distortion (caused by fixed digital errors) for a proportional increase in noise (caused by random digital errors). This, plus its discrete Bit Stream DAC, ensure DPA's latest generation is utterly unique.



Sophisticated DPA package did not win over the *Choice* listening panel.

Sound quality

In practice, this DPA quartet offered us a fascinating yet perplexing balance of properties. It encourages a very full sound bustling with plenty of entertaining detail, yet the manner in which this detail is portrayed varies with the dither modes on offer.

Without dither, the bass sounds full and heavy but less well defined while the treble adopts a hard and spitty coloration that plays havoc with vocal sibilance. With increasing additions of dither, the level of background noise increases, and quite markedly so at settings three and four. Our panel, oblivious to my adjustments, immediately identified what they described as 'background grunge' permeating the opening strings of Handel's *Concerto No.1*.

The bass is leaner but tighter under these circumstances, the classical harpsichord lacking the full resonance of its soundbox just as some male vocals lost their characteristic colour. Mary Chapin Carpenter, meanwhile, sounded lively, articulate and less sibilant but her performance was now accompanied by a haze of noise caused by the dither.

Conclusion

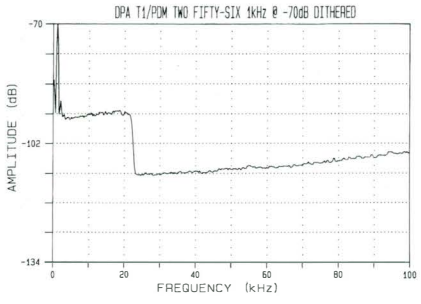
Dither is already implemented in a variety of chips used in modern CD players, but never has such a powerful tool been provided for your personal modification of sound quality. In this application, dither tames the lively but rather bright and sibilant treble of the *PDM256* but encourages a leaner and dirtier balance by way of recompense.

It is perplexing that DPA's years of research have led to such a disappointing conclusion. On the basis of these samples, I have to side with our panel and am forced to give the *T1/PDM256* a rather reluctant thumbs down.

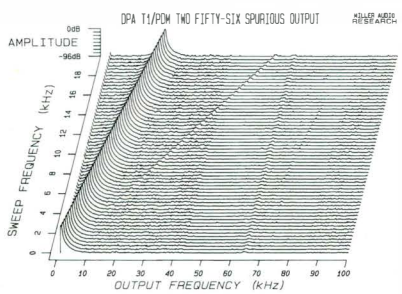
LAB REPORT

In stark contrast with previous DPA converters, including the *PDM2* (issues 101 and 120), the *PDM256* has not been designed with technical specmanship in mind. Hence the modest 0.002-0.012 per cent THD at peak-level that increases to a fairly poor 0.007-0.07 per cent at -30dB and finally bottoms-out at a ghastly five per cent at -60dB. At this level, a THD of 0.1-0.3 per cent would be rather more appropriate.

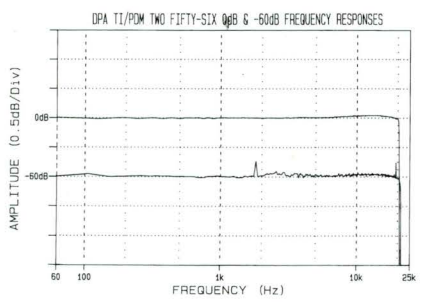
Moreover, at dither levels 1-4, the THD spectrum becomes unstable between -20dB and -80dB, producing unusual high-order harmonics that 'pulse' through the background noise. The best-case 98.5dB signal-to-noise ratio also collapses to 84.5dB at dither level 4, though its noise mod remains a fabulously low +0.1dB.



At dither level 4 (the maximum setting)distortion is not eliminated and dynamic range falls to 14 or 15-bits.



Simple 3rd harmonic, typical of Philips' SAA7350 noise-shapers that are used by DPA to produce bitstream.



Increase in noise caused by adding dither is obvious on the low-level frequency response, and audible to our panel.

VERDICT

- ▲ A very novel dither facility; exciting, dynamic and informative.
- ▼ Great idea that, unfortunately and irritatingly, seems flawed in practice.

SOUND ★★★★★

VALUE ★★★★★

PRICE £895/2,995

✉ *DPA Digital Ltd, Willow Brook, Technical Units, Crickhowell Rd, St Mellons, Cardiff CF3 0EI.*

☎ *(0222) 795621*

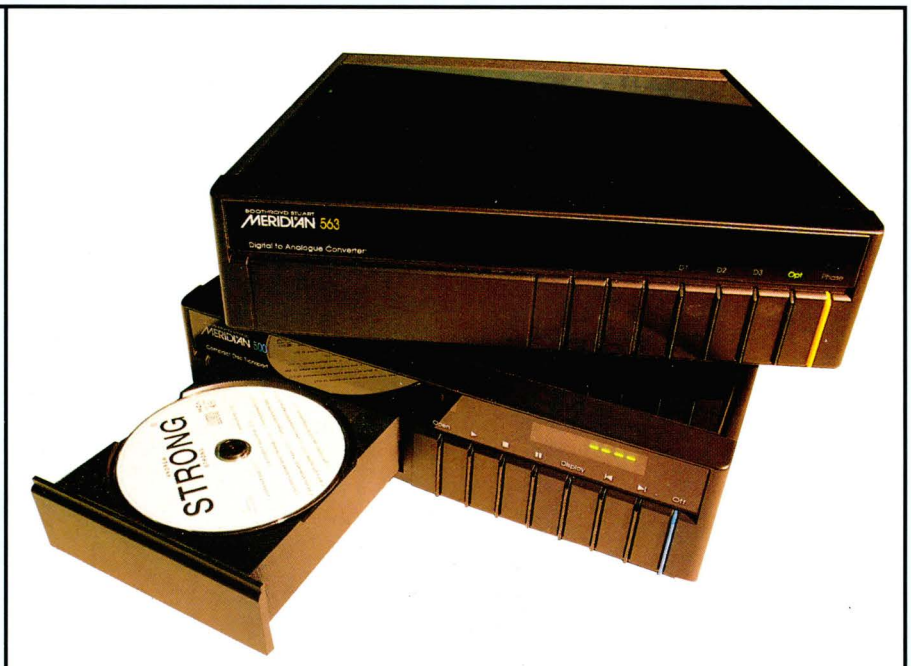
MERIDIAN 500/563

A salutary tale this, that serves to demonstrate how even past masters of the digital art can miss a flawed canvas from time to time. Superficially, there's nothing amiss with this *500-series* combination, a matching and elegant pair that combines the distinctive ergonomics of its forebears with a new and somewhat softer outline.

The combination of an alloy chassis, moulded plastic facia, black textured-enamel and glass top-plate also confers a deal of added stability to the *500* transport. Its innards have evolved from the *602* (issue 96) but benefit from a new and lightweight carbon-fibre disc-clamping mechanism, separate keypad and servo microprocessors (each programmed by Meridian), plus an improved dot-matrix display.

Once again, Meridian has retained the Philips older swing-arm CDM4 mechanism and SAA7310 decoder — a combination that still provides unparalleled tracking of discs that aren't top quality or in the best condition. Then there's the digital output itself, still fired-up by Philips' PCF2705 ADOC, but now re-clocked and reinforced by a separate line-driver amplifier.

Its partner, the *563*, hasn't changed from issue 127 but remains the only outboard converter equipped with a differential pair of Crystal's popular CS4328 Bit Stream DACs. Notable features on the *563* include a phase-invert option and balanced AES/EBU digital input. It's a pity the *500* doesn't feature an AES/EBU output to match.



A disappointing result from a promising coupling.

Sound quality

Glancing back at my notes from issue 127, I discovered that the listening panel had in that test gently chastised the *563* converter for sounding very slightly forward and also a little anxious with busier passages of music. Nevertheless, these trivial foibles were readily tempered by the sophistication of a superior transport.

But now, some six months and 500 units on, this *500/563* combination was described in deprecating terms by our panel as lacking in real substance. Certainly it seemed rather forward and brash, lacking bass weight and momentum. Our jazz selection sounded harder and brighter than usual, as if the saxophonist had fitted a harder grade of reed.

Mary-Chapin Carpenter sounded particularly busy and vigorous with plenty of low-level detail brought to the fore (note the compressive linearity trend in the test figures on page 54). But sadly, there's little gradation or dynamic expression. It's a loud and tiring performance rather than one that reflects the true contrasts of the music.

Conclusion

Despite achieving a Recommendation in issue 127, this particular *563* converter, in tandem with Meridian's own *500* transport, marked a significant downturn in performance.

Interestingly, many of the minor indiscretions noted in issue 127 were cited at the forefront of its problems here, despite our use of various digital cables, including both Audioquest Video Z and Goldmund Lineal.

STOP PRESS: At the eleventh hour, Meridian confirmed this sample was faulty. We will report on a kosher machine as soon as possible.

VERDICT

- ▲ **Plenty of get-up-and-go; will liven-up even the dullest and dustiest of hi-fi systems.**
- ▼ **Too insistent, urgent and fatiguing; light and bright; insufficient weight and gravity.**

SOUND ★★★★★

VALUE ★★★★★

PRICE £975/695

✉ *Meridian Audio Ltd, St Peter's Road, Huntingdon, Cambs.*

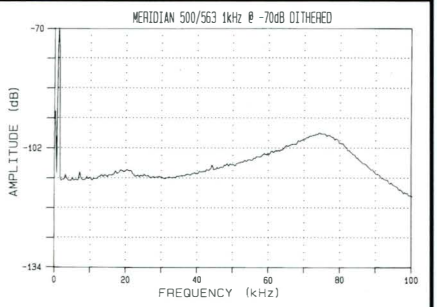
☎ *(0480) 434334*

LAB REPORT

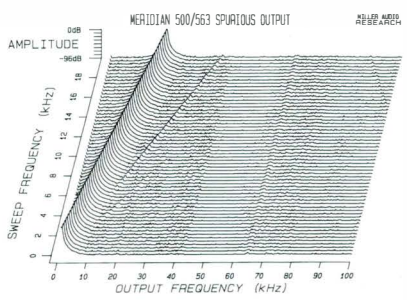
Subject to a fresh overhaul in the lab, this *500/563* combination failed to maintain the performance of the *563* tested in issue 127. Sure, there's a reduction in peak-level THD to 0.0007 per cent midband but a massive increase in THD at -30dB from 0.002-0.008 per cent to 0.02-0.025 per cent.

Its low-level linearity is also slightly wayward with errors of just -0.45dB (issue 127) increasing to +2.40dB in this instance. This, plus the rippling of its low-level frequency response, suggests a possible problem at the LSB of one DAC.

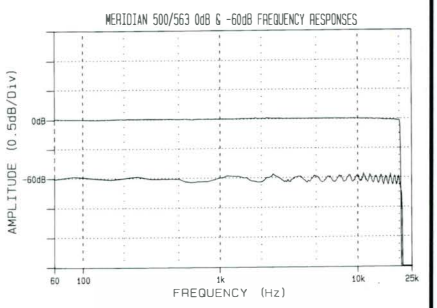
Otherwise, the suppression of stopband noise and wide 103dB signal-to-noise ratio remain equally impressive for this unique 'double-Crystal' implementation.



Typical pattern of ultrasonic noise emerging from Crystal Bit Stream converter as used in the Meridian DAC.



The innocuous 2nd harmonic visible on the 3D plot should havebeen removed by Meridian's differential DAC.



Obvious ripple in low-level response was absent in 563 converter which was tested in Hi-Fi Choice issue 127.

MISSION CYRUS DISC/DACMASTER



Powerful performance is bound to impress.

First seen at the 1993 Chicago CES, it's taken nearly a year for Mission's two-box Cyrus CD player to settle into production and finally trickle out for review. It's also the first two-box combination to be designed in-house, though Mission has retained a tie with Philips by employing its advanced CDM9-Pro mechanism and SAA7310 decoder.

The fact that this transport has been converted into a top-loader by ferreting it away under a tinted perspex lid has no bearing on either its tracking or flexibility. It'll still play both three and five-inch discs, for example. Just remember to replace the magnetic disc clamp every time you swop a CD.

The matching *Dacmaster* converter is also built into a familiar Cyrus case and is upgradeable using a PSX-R power supply. More importantly, it mirrors the *Discmaster*'s choice of digital outputs, including Mission's version of the balanced AES/EBU output called 'PRO'.

A six-pin DIN COMMS link is also provided, permitting remote selection and track-by-track programming of phase via the *Discmaster*. This link also feeds a sample-rate signal back to the *Discmaster*, synchronising the flow of digital data between the two components (see Arcam and DPA reviews).

Sound quality

Auditioned in Mission's PRO mode and employing its own digital interconnects, this stylish combination delivered a very powerful and authoritative sound with very natural, unforced vocals and airy, spacious treble. Likened by our blind listening panel to 'a good Beaujolais Nouveau', they concluded that this combination seems to possess 'a youthful and fruity balance, if one that lacks the ultimate sophistication of other players'.

It certainly moved through Handel's *Concerto No.1* like a warm chainsaw through butter, delivering its music in a slightly teutonic or mathematical fashion. To our ears, this two-box player carved through our classical selection a little too quickly, its enthusiasm for the performance almost leading to it running away with itself.

The *Discmaster/Dacmaster* combination might appear very slightly crude or heavy-handed but it could never be described as feverish or aggressive. Far from it. In practice, it sounds very clean, confident, persuasively defined and not unlike the *Cyrus 3* we reviewed in issue 130.

Conclusion

Mission is evidently aiming to achieve a family sound, the robust, 'shoot first' policy of the *Discmaster/Dacmaster* combination sharing many of the sonic hallmarks of the *Cyrus 3* amplifier. Incidentally, it's vital to keep the COMMS link connected between this two-box package for, without it, the sound becomes lighter, brighter more forward and lacking in its customary impact.

Its sure-footed and powerful performance will undoubtedly prove very attractive, whether it's as part of a fully-fledged Mission system or as the source component in a more eclectic hi-fi set-up.

VERDICT

- ▲ **Powerful performance; large and beefy without sounding fierce or aggressive.**
- ▼ **Lacks sophistication; can sound a bit too light and bright without the COMMS link.**

SOUND ★★★★★

VALUE ★★★★★

PRICE £1,900

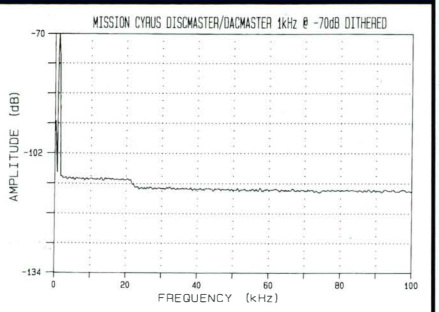
✉ *Mission Electronics, Stonehill, Huntingdon, Cambs PE18 6ED.*

☎ *(0480) 451777*

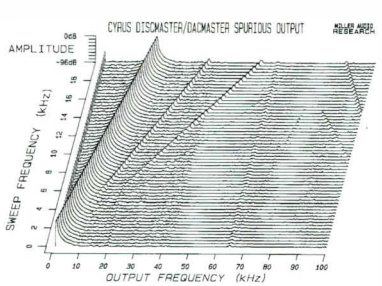
LAB REPORT

Rather than be dominated by its NPC SM5813 oversampling filter or 20-bit DACs, the technical performance is sculptured by Mission's choice of analogue components. This 5th-order passive filter is probably responsible for the increase in HF distortion (0.0007 to 0.02 per cent) and the relatively poor 96-97dB signal-to-noise ratio. Other converters using the AD1862 DACs achieve a signal-to-noise in excess of 110dB (issue 120).

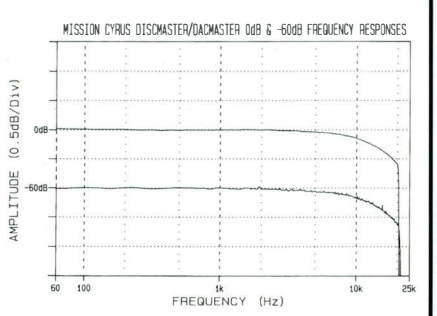
Nevertheless, both low-level linearity and low-level distortion remain the preserve of its digital electronics and here Mission has achieved specs which at least match, and in some cases exceed, its technological rivals. Otherwise, there are no glaring or potentially troublesome bugs to reveal.



Very uniform output of ultrasonic noise but note the 3-4dB reduction in expected dynamic range of the Mission combination.



There are few stopband images to be seen but distortion tends to increase markedly at anything above a few kHz.



The passive analogue filter in the Mission Cyrus *Discmaster/Dacmaster* is engineered to provide a gentle treble roll-off.

MONARCHY AUDIO DT-40A/M-33



A bulky combination but one which offers some unique system building options.

Having retreated from a brief foray into the computer market, Monarchy has returned to its roots and launched a new and highly distinctive series of digital components. This includes a massive CD transport, the £1,595 *DT-40A*, based on a Philips' *CDV400* Laserdisc player, stripped of paraphernalia and secured within a reinforced steel-and-alloy case.

Incidentally, this is very similar to the transport used by Theta and EAD for their high-end CD transports. The assumption behind this theory being that a mechanism designed to spin heavy 12inch Laserdiscs should handle 5inch CDs with ease.

In this case, Monarchy has retained Philips' comprehensive remote control but abandoned the old digital output chip (a Philips SAA7220) in favour of a Crystal CS8425 ADOC, Motorola line driver and triple-shielded output transformer.

The *DT-40A* is equipped to punch its way into any outboard DAC, including, of course, the partnering £1,495 *M-33* with its new Yamaha ADIC, a pair of top-grade 20-bit converters and optional class A line preamplifier. A large rotary volume control presides over the DAC's output and caters for two additional line inputs, enabling the *M-33* to be connected directly to a power amplifier.

Sound quality

Buoyant, lively and betraying a real enthusiasm for the music at hand, Monarchy's combination proved a great hit with our blind listening panel. This pair retains a very cohesive and well-integrated sound bringing a natural weight, snap and authority to both percussion and rhythm lines.

Its bass is particularly powerful and well-defined, grumbling along without muddying subtler details. The drum, piano and electric guitar from Lyle Lovett's CD were especially well resolved, allowing us to hear each performer without pulling the music apart in a cold or dispassionate fashion.

Similarly, this excellent sense of focus and integration was immediately appreciated with Handel's *Concerto No.1*, the flow and momentum of the opening violins being maintained as the remainder of the orchestra joined in.

Here at least, the tangible weight of the harpsichord successfully merged with the double bass and violas rather than appearing as a disembodied instrument. A busy and intriguing pair, by all accounts.

Conclusion

To some ears the Monarchy combination may sound as if it's taking liberties with the gentlest of musical styles. To others, it will successfully combine the sophisticated performance of an expensive CD player with a certain necessary roughness.

Nor will the sheer bulk of the *DT-40A* endear it to fussy audiophiles. But how many outboard DACs interface directly with a power amp, and how many CD transports can send, near broadcast quality pictures to your TV set?

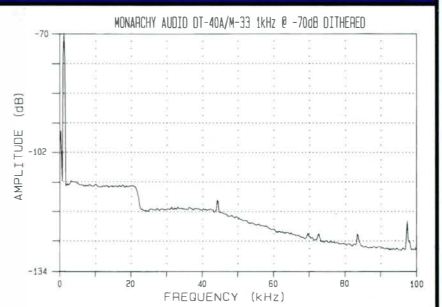
One final carrot; if you buy the pair, Wollaton Audio will throw-in a £175 XLO *Reference* digital cable gratis.

LAB REPORT

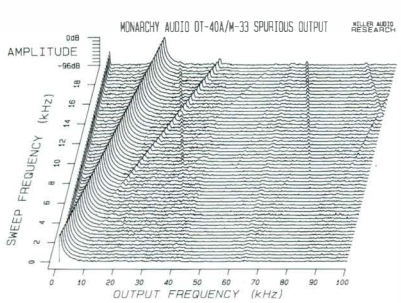
This combination provides a good but not state-of-the-art example of what can be achieved with Burr-Brown's *DF1700/PCM63P* eight times oversampling/20-bit DAC chipset.

A mild 2nd-harmonic pushes its peak-level distortion from 0.002 to 0.03 per cent via both line (3.5V) and AD847-based preamp (7.5V) outputs. Unfortunately, this distortion increases to 0.4 per cent with pre-emphasised CDs.

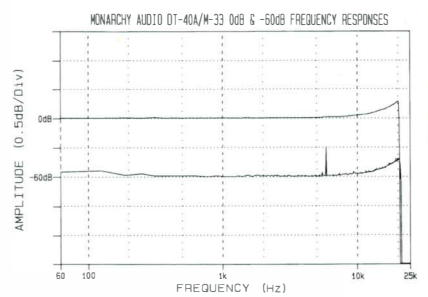
Meanwhile, the stopband suppression should really exceed 105dB just as the 101dB signal-to-noise ratio is closer to 110-114dB in competing PCM63P-based DACs (see PS Audio and Linn, issue 120). These diversions are not significant but do add a certain character to the performance of the Monarchy combination.



Gentle 3rd-order filter effectively removes what little ultrasonic noise remains at low signal levels.



Innocuous 2nd-order total harmonic distortion yet stopband noise is poorer than expected for DF1700 digital filter.



The +0.3dB boost at 20kHz is maintained through both line and preamp (+6.7dB) outputs on the Monarchy pair.

VERDICT

- **Fine musical communication skills and a rich, warm and friendly sound.**
- **Lacks smoothness; treble has a rather dull balance and bass is a little detached.**

SOUND ★★★★★

VALUE ★★★★★

PRICE £1,595/1,495

Wollaton Audio, 134 Parkside, Wollaton, Nottingham NG8 2NP.
(0602) 284147

PS Audio Lambda/Ultralink Two



A technical tour de force, and it sounds good too.

PS Audio is justifiably proud of its new £2,500 *Ultralink Two* DAC. Despite its dour appearance, it's home to some of the most advanced (and costly!) digital technology available. In many respects, it represents an enhanced but simplified form of the PS *Reference Link Processor* (issue 132).

Behind the black alloy facia and green indicator LEDs, for its coax, AT&T, Toslink and AES/EBU inputs, lie the same NPC eight times oversampling filter and latest A-grade version of UltraAnalog's 20-bit DAC.

By avoiding the digital volume control, which modified the DAC's reference voltage, and retaining the PMI OP275-based analogue stage, PS Audio has traded complexity for elegance. Furthermore, all data entering the *Ultralink* is now captured by a superior UltraAnalog AES21 ADIC — yet another significant advance on the *Reference Link*.

So what of the £2,250 *Lambda* transport? Funnily enough, this uses the same building-blocks as the Theta *Data Basic*. Hence the common display, features and the same CDM9-Pro mechanism, complete with ASM collimator, which does nothing to enhance its tracking. Similarly, even the PSU, decoder and digital output boards are sourced from those friendly people at Philips.

Sound quality

This pleasantly smooth, open and spacious sounding combination was likened by our blind listening panel to the *Theta/Cobalt* system — a gratifying correlation bearing in mind the *Lambda* and *Data Basic* transports are broadly one and the same thing. Yet the flashes of brilliance missed so sorely with the *Theta/Cobalt* were heard in abundance with the costly PS Audio duet.

Returning to Handel's *Concerto No.1*, our panel relished the freshness and freedom of the opening violins, but the appearance of double bass marked a mild ponderousness on the part of the PS Audio combination. Mary-Chapin Carpenter sounded similarly fresh, clear and enthusiastic yet the accompanying bass guitar lacked this same measure of speed and lucidity.

Fortunately, and despite losing its grip of deepest bass, the *Lambda/Ultralink Two* combination remains quite unfazed, offering a very positive and well-projected sound that's busy with rock-solid images.

Indeed, both the jazz piano from Marty Paich's CD and the resonant harpsichord from Handel's *Concerto No.1* now sounded beautifully open, robust and colourful. Vocals sounded equally smooth, free of grittiness and sibilance, yet possessing life and vitality that held us enthralled.

Conclusion

From whatever angle you care to listen to the *Lambda/Ultralink Two*, the quality and impact of its performance is difficult to ignore. Sure, it has slightly wayward bass but the refined and fluid quality of its mid and treble ensures its music always sparkles with rich and colourful detail.

So, for the price of a single *Reference Link* processor (issue 132), this *Lambda/Ultralink* combination not only exceeds its spec but also earns itself a Recommendation en route.

VERDICT

Extremely satisfying performance; glorious midband — refined and fluid; very detailed.

This combo is marred only by a bass that would be slightly diffuse in a full-range system.

SOUND ★★★★★

VALUE ★★★★★

PRICE £2,250/2,250

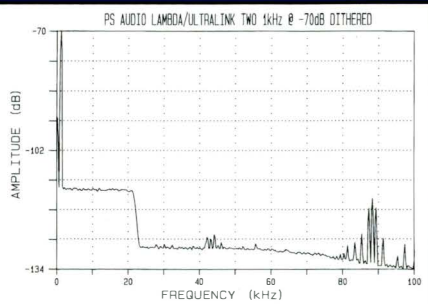
Absolute Sounds, 58 Durham Road, London SW20 0DE.

081-947 5047

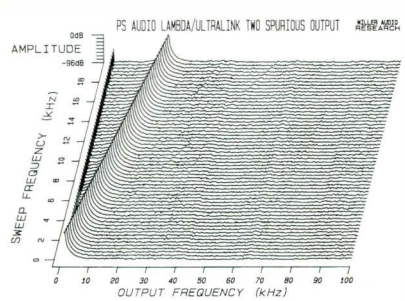
LAB REPORT

Comparisons with PS Audio's esoteric *Reference Link* Processor (issue 132) show that this *Lambda/Ultralink* combination offers a lower peak-level distortion of 0.0007-0.0025 per cent, equally wide dynamic range (see -70dB plot) but far wider 114dB signal-to-noise ratio. Ranged against this is its massive +12dB noise modulation, an inevitable side-effect of traditional multi-bit technology.

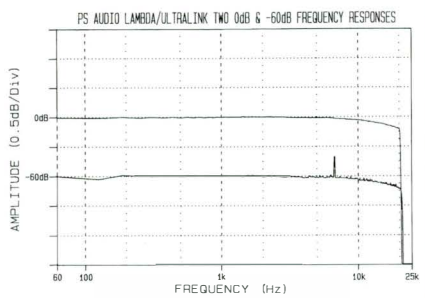
Otherwise, its linearity holds to within -0.65dB across the entire audio band and over a full 100dB dynamic range. More important is the fact that distortion remains low where all the musical action takes place: just 0.005-0.008 per cent at -30dB and 0.08-0.18 per cent at -60dB. This is a state-of-the-art performance, make no mistake.



Very wide dynamic range and low distortion is maintained even at low signal levels by the PS Audio combination.



The PS Audio pairing showed excellent rejection of stopband images with minimal distortion at high levels.



Gently tailored treble response has no undue influence on sound quality which remained refined and fluid.

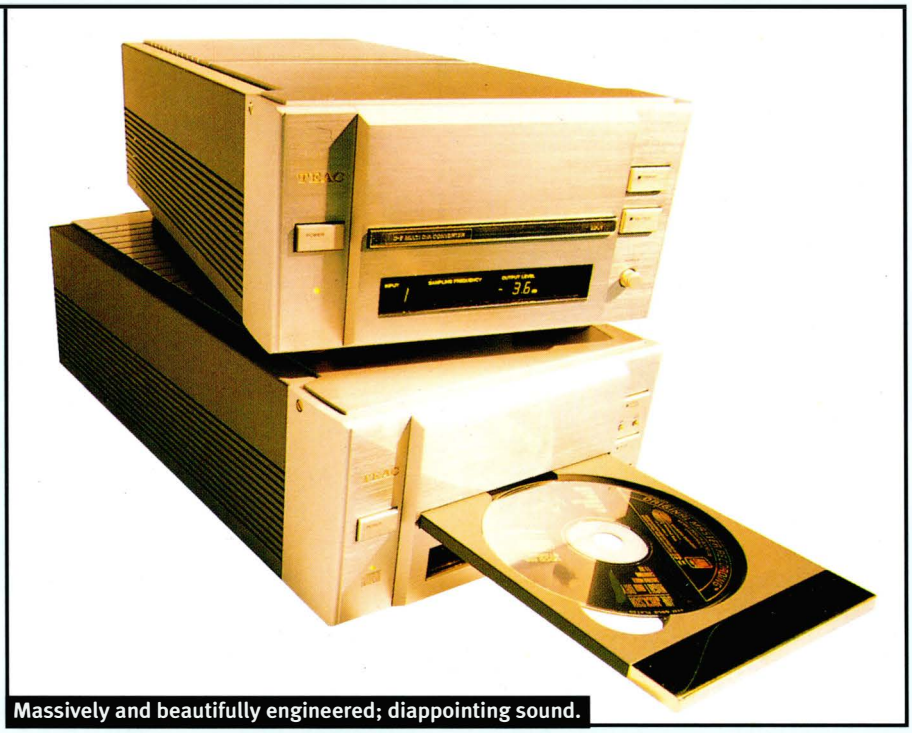
TEAC P-2s/D-2

Instantly recognisable by its compact profile, champagne-gold facia and slender orange display, the *P-2s/D-2* combination is Teac's two-box digital statement. This transport and DAC team cost a cool £4,300 and £2,500 respectively. For your money, the *P-2s* transport features a diecast version of its acclaimed VRDS mechanism which clamps the CD to a brass and aluminium platter that's poised overhead.

It's a novel idea and beautifully executed. However, its tracking of imperfect discs still falls behind the Philips-based transportsf rom Arcam, Meridian, Mission and DPA.

The *D-2* DAC pre-dates the *P-2s* but it is equally lavish in its engineering, offering four inputs (though unfortunately not AES/EBU or AT&T) as well as a 90-step digital volume control that's operable from both the facia and the matching remote handset. Incidentally, the latter offers every conceivable widget including direct index and track selection, program, single and repeat play plus time search, phase and muting facilities.

Inside the *D-2*, however, things are not looking so fresh. Teac is still using Sony's old CXD1076 ADIC to capture incoming data, for example. Meanwhile, the choice of a CXD1244 eight times oversampling filter (as used by Theta) and complementary 18-bit DACs has effectively been superceded by the 20-bit chipset found in its more recent *D-700* converter and *X-1* CD player.



Massively and beautifully engineered; diappointing sound.

Sound quality

This extravagant combination would certainly appeal to Billy Whizz, such is the vigour and pace of its music. Tonally, its balance is lean, distinctly forward and seems easily caught out by fairly busy pieces of music, regardless of the chosen digital input or link.

Further experimentation showed that reversing the polarity of the DAC's mains inlet (a figure of eight Telefunken socket) encourages a smoother and warmer sound that is both less hasty and slightly more appealing. Nevertheless, its dynamic and tonal ranges remain equally restricted.

The alto sax from our jazz selection adopted soprano overtones while the remainder of Marty Paich's Big Band were, it was suggested, 'holed up in a corner of the studio under a fire blanket'. Similarly, what was described as the 'thrash metal' version of Handel's *Concerto No.1* sounded just too harsh and jangly to be convincing.

Further elaboration would be gratuitous — this combination simply failed to impress.

Conclusion

Back in issue 130, we suggested that the true mettle of Teac's *P-2s* transport would, perhaps, only be realised with its natural bedfellow, the *D-2*. Teac also entertained the idea with some confidence but the combination of an over-engineered transport with an equally over-engineered but rather dated DAC has met with a disappointing end.

My advice would be to save yourself £5,300 and opt for Teac's fabulous *P-700/D-700* instead — a £1,500 Best Buy from issue 120 that clearly outclasses its classy stablemate.

VERDICT

- **An extremely luxurious piece of engineering with no shortage of digital outputs.**
- **Thin, gutless and tiring sound; over engineered; not as impressive as its less expensive sibling.**

SOUND ★★★★★

VALUE ★★★★★

PRICE £4,300/2,500

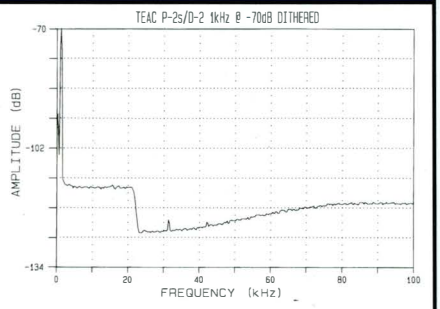
Teac UK, 5 Marlin House, The Croxley Centre, Watford, Herts WD1 8YA.

(0923) 819630

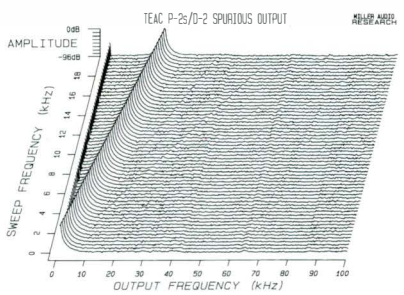
LAB REPORT

From a digital standpoint, both the 75ohm/560mV output of the *P-2s* and true 75ohm input of the *D-2* converter are well-matched. Nevertheless, the technical performance of the *D-2*, with its pairs of complementary 18-bit DACs, lags newer 20-bit Teacs with a reduced 103dB signal-to-ratio and a huge 'multi-bit lurch' in distortion from 0.0009 per cent at 0dB to 0.05 per cent at -30dB.

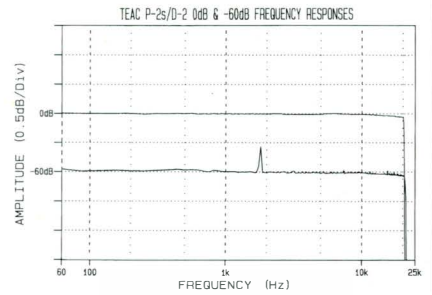
Thereafter, the *P-2s/D-2* behaves itself, with minimal low-level linearity errors of just +0.2dB/-0.35dB over an entire 100dB dynamic range, with a full 105dB rejection of stopband images and a usefully low 16ohm output impedance from its MosFet-based analogue stage.



Wide dynamic range, very low distortion and little or no sampling images.



The merest hint of 2nd, 3rd, 4th and 5th harmonics break clear of an otherwise impeccably clean 3D plot.



Very flat frequency response and excellent low-level linearity from the Teac P-2s/D-2 combination in spite of obvious glitch.

THETA DATA BASIC/COBALT 307

Many issues, reviews and tests of new products ago (issue 101), we successfully teamed-up Wadia's costly *WT3200* CD transport with Audio Alchemy's budget *DDE* DAC. The results obtained from this harmonious partnership encouraged us to tempt fate with a similar 'fiscal mis-match', this time from the house of Theta.

Regular readers will already be familiar with the £1,997 *Data Basic* transport from issue 130, a sophisticated Philips-based design combining both a CDM9-Pro mechanism and a new ADOC (Audio Digital Output Circuit). The Philips remote control, however, is a more straightforward affair offering track and index selection plus program and repeat play. Nothing fancy, that's true, but it gets the job done all the same.

The diminutive £699 *Cobalt 307* is a very different story altogether. In this instance, a Crystal ADIC snatches up the incoming data from either of its coaxial or Toslink digital inputs while an eight times oversampling filter from Sony and hybrid DAC from Burr-Brown convert the numbers into music.

It's comforting to know the bulk of your pennies are being well spent on high quality under-the-bonnet engineering, leaving a phase-invert facility by way of a token widget. Such details as the Nichicon Muse capacitors, bulk-foil resistors, a top K-grade DAC and AD841 op-amps (as used by EAD, see issue 120) add up to a small but interesting and potentially super-charged package.



Sound quality

Having auditioned the Theta/*Cobalt* combination not once but on two separate occasions, our listening panel concluded that it was the most relaxed but also the most passive-sounding of our various contenders. Sure enough, its laid-back demeanour and unforced dynamics make for comfortable long-term listening but it can just as easily sound too inoffensive, dispassionate or even bland.

For example, the delicate smoothness of the Lyle Lovett CD proved highly attractive even if, track by track, it lacked the energy and pizzazz to grip our attention. Similarly, this duet successfully tamed the forthright treble of Mary-Chapin Carpenter's rhythm guitar yet, by the same token, robbed it of boldness, airiness and acoustic space.

Despite this tonal caution, the Thetas still maintain very tightly focused and stable stereo images. So Marty Paich's jazz sax was carved impressively from thin air, despite it lacking that rough and brassy edge necessary to elevate its performance from merely entertaining to genuinely realistic.

Conclusion

Something of a bargain in its home state of California, the *Cobalt 307* still offers good value at its UK price of £700 and represents a worthwhile upgrade for many £200-£300 CD players.

Sadly, in this company, the *Cobalt 307* is rather overwhelmed by the potential of Theta's *Data Basic* transport. The result is a gentle and pleasant sound, yet by refusing to tackle deep bass or high treble, one that lacks a sense of grandeur, spaciousness and passion.

VERDICT

- ▲ **Unfatiguing and exceedingly refined performance; good value.**
- ▼ **Lossof bassand treble; lack of commitment and emotion can make some tracks sound too polite.**

SOUND ★★★★★

VALUE ★★★★★

PRICE £987

✉ *Absolute Sounds, 58 Durham Rd, London SW20 0DE.*

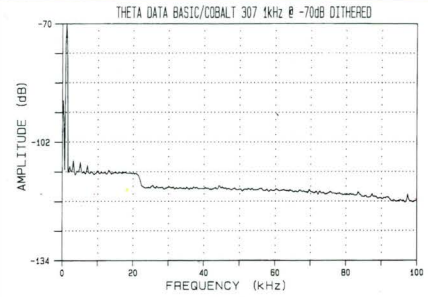
☎ *081-947 5047*

LAB REPORT

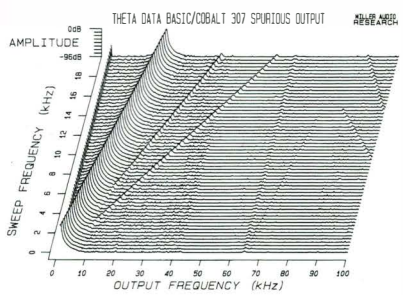
Having already tested a *Cobalt 307* about a year ago, this newer sample, in combination with Theta's *Data Basic*, demonstrated some variation. Its overall signal-to-noise ratio has edged-up to 99dB but still remains some 6-7dB short of what's possible from Burr-Brown's PCM67P DAC.

Moreover, distortion, already about twice as high as expected at -30dB, has further deteriorated from 0.3 to 0.65 per cent at -60dB — witness the odd-harmonics on the 1kHz/-70dB plot.

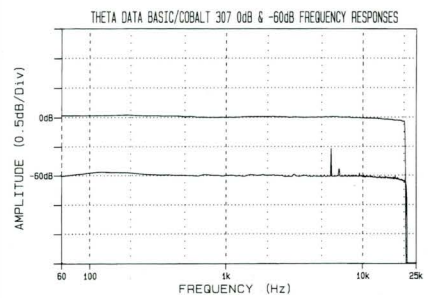
Sadly, the linearity of this *Cobalt 307* is also impaired, with earlier errors of just +0.9dB increasing to +2.7dB at 1kHz. The poor 60dB channel separation at low frequencies is unusual and suggests a degree of unwanted cross-coupling via the PSU.



This particular sample shows higher distortion at low-levels than earlier Cobalt 307's.



Sony's digital filter removes stopband noise, leaving 2nd/3rd harmonics from Theta's *Cobalt 307* DAC.



Flat, ripple-free response but 'spikes' clearly visible to the right of the lower plot are caused by the digital filter.

CD TRANSPORTS AND DACS

Conclusions, best buys and recommendations



Spending a small fortune on a multi-box CD player should guarantee you more than a glimpse of the 'real thing', but sadly, this is not always the case. In reality it's the budget end of the CD market that appears to be converging towards a common and very high standard of sound quality. The more you pay, it seems, the more diverse the flavour becomes.

This is in spite of the fact that there are only a finite number of decoder chips, oversampling filters and digital-to-analogue converters available for the designer to choose from.

So anyone who remains hung-up on the archetypal differences between bitstream and multi-bit technology, for example, is clearly missing the point. Players do not succeed or fail by choice of technology alone but rather, how it is implemented.

This is where sound quality can become clouded by the shower of money being thrown at a particular high-end project. Teac's *P-2s/D-2* combination is a classic example of well-intentioned but disastrous over-engineering. After all, the relative simplicity of Teac's *P-700/D-700* combination never prevented it from earning a Best Buy in *Choice* 120.

Somewhat surprisingly, neither Meridian's *500/563* combination nor the exceedingly hi-tech *T1/PDM Two Fifty Six* from DPA really cut the digital mustard in our blind listening tests. In Meridian's case, the minor distractions noted with its *563* (in issue 127) were now cited as major objections, though our suspicions of a fault in the review sample were confirmed at the last minute. (We will report again as soon as possible when we've heard one that's up to the mark. For DPA, their offering was uncharacteristically compromised.

There was nothing perturbing about the performance of Theta's two-box 'starter-pack', but the *Data Basic* is better suited to a meatier-sounding DAC, while the *Cobalt 307* desires a slightly rough'n'ready transport. Mission's *Discmaster* and *Dacmaster* seem well partnered, and earned points for combining a sense of urgency with clear-cut authority and confidence. In this respect there is also a certain empathy between Monarchy's *DT-40A/M-33* and the *Lambda/Ultralink Two* from PS Audio. Both are as invigorating as the Mission, but have a sense of additional poise and sophistication.

The firm definition of the Monarchy outweighs any sense of its music being man-handled, just as the fresh and enthralling midband of the PS more than compensates for any softness in its bass. Even at this exalted price level there's no such thing as perfection!

Arcam's *Delta 250/Black Box 50* is the cheapest of the lot, and the only clear candidate for a Best Buy. Though it lacks the runaway momentum of the Mission and the grandeur of either the Monarchy or the PS Audio, it does make sense of every rhythmic style without imposing artificial civility or undue forcefulness. All in all, it presents a compelling argument for the potential superiority of the two-box CD player.

How the transport and

	Arcam Delta 250/ Black Box 50			DPA Digital T1/PDM Two Fifty-Six			Meridian 500/563		
	20Hz	1kHz	20kHz	20Hz	1kHz	20kHz	20Hz	1kHz	20kHz
Channel Balance	0.03dB	0.02dB	0.04dB	0.04dB	0.04dB	0.07dB	0.20dB	0.20dB	0.18dB
Channel Separation	90.7dB	97.3dB	69.3dB	85.4dB	92.7dB	92.1dB	125.8dB	121.6dB	110.5dB
THD vs Level, 0dB	-113.8dB	-91.3dB	-72.8dB	-96.0dB	-93.7dB	-78.4dB	-103.5dB	-103.2dB	-86.8dB
-30dB	-93.6dB	-71.6dB	-69.2dB	-82.2dB	-66.5dB	-62.5dB	-77.5dB	-74.5dB	-67.9dB
-60dB	-43.4dB	-41.9dB	-41.4dB	-40.2dB	-26.2dB	-41.5dB	-45.1dB	-41.5dB	-38.5dB
-80dB	-20.5dB	-21.8dB	-23.5dB	-26.5dB	-24.6dB	-20.4dB	-21.5dB	-20.6dB	-18.7dB
Dithered,-90dB	-12.5dB	-15.3dB	-16.5dB	-7.80dB	-17.5dB	-12.7dB	-9.50dB	-14.5dB	-10.5dB
Dithered,-100dB		-14.2dB			-8.50dB			-9.70dB	
Dithered,-110dB		-2.50dB			-6.50dB			-1.50dB	
Resolution @ -60dB		+0.15dB	+0.15dB		-0.01dB	-0.02dB		+0.03dB	+0.05dB
-80dB		+1.30dB	+1.35dB		+0.03dB	-0.12dB		+0.30dB	+0.37dB
-90dB		+3.10dB	+3.20dB		-0.33dB	-0.65dB		+1.70dB	+1.65dB
-100dB		+3.55dB	+2.85dB		-0.20dB	-0.25dB		+2.40dB	+1.95dB
Peak Output Level, L		2.366V			2.027V			2.214V	
R		2.371V			2.015V			2.209V	
Relative Output Level		+1.5dB			+0.09dB			+0.9dB	
Output Impedance		47ohm			<1ohm			46ohm	
1Hz Noise Modulation		+4.1dB			+0.10dB			+2.5dB	
CCIR IMD, 0dB		-95.5dB			-76.5dB			-102.5dB	
Suppression of stop-band IMD		66.1dB			>105dB			98.0dB	
De-emphasis Accuracy, 1kHz		0.00dB			-0.05dB			-0.02dB	
5kHz		+0.01dB			-0.33dB			-0.03dB	
16kHz		-0.07dB			-0.35dB			-0.05dB	
S/N Ratio (A-wtd), w emp, 0LSB		103.2dB			98.5dB			103.3dB	
w/o emp, 0LSB		101.8dB			93.9dB			98.7dB	
w/o emp, 1LSB		101.6dB			90.5dB			99.0dB	
Digital Outputs	Coaxial, BNC, Toslink			Coaxial, Toslink.			Coaxial, Toslink.		
Digital Inputs	Coaxial, Toslink			Coaxial, Toslink, AT&T.			Coaxial, AES/EBU, Toslink		
Master Clock Accuracy		-19.9ppm			+67.0ppm			+26.0ppm	
Track Access Time (99)		3.5secs			4secs			4secs	
Serial Number	D25000132/DBB008225						100807/100786		

Best Buys and Recommended models

Best buys

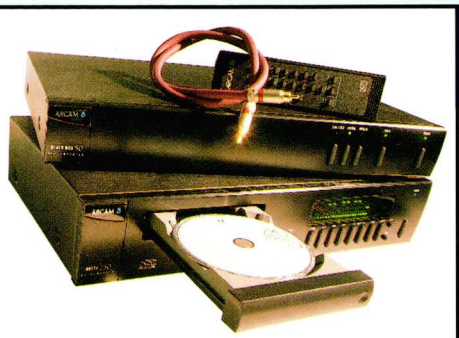
The Arcam *Delta 250/ Black Box 50,* at £1,200, is the least expensive combination in the test. A very sophisticated player, it sounds smooth without appearing soft or sugar-coated — a bargain two-box CD player.

Recommended

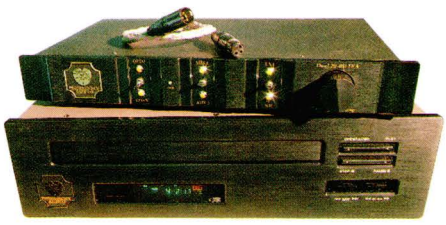
Mission Cyrus's *Discmaster/ Dacmaster* (£1,900) is a powerful-sounding and perhaps slightly heavy-handed combination, but it cuts right to the heart of its music.

The Monarchy Audio *DT-40A/M-33* (£3,090) is an intriguing partnership that provides a beefy and enthusiastic performance via its balanced AES/EBU connection.

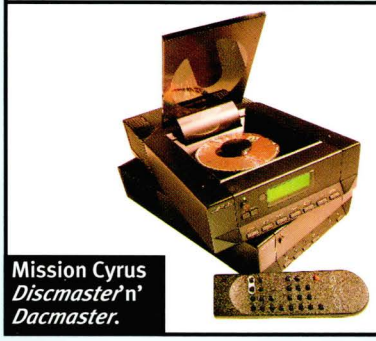
In direct contrast with its modest appearance, the PS Audio *Lambda/Ultralink Two* (£4,500), is a duet which positively sparkles with colour and resonant detail.



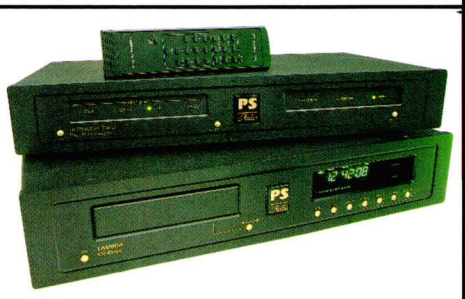
The best of the bunch: Arcam's *Delta 250/BB50.*



Monarchy *DT-40A/M-33*: 'beefy, enthusiastic.'



Mission Cyrus *Discmaster*'n' *Dacmaster.*



PS Audio: 'sparkling with colour and detail.'

The best of the rest

If the idea of a one-brand, two-box player appeals, there are a few other worthy candidates to consider. Teac's *P-700/D-700* combination (£1,500), a scaled-down version of the *P-25/D-2* featured here, is the most impressive and least damaging to the bank balance, and offers much more lyrical sound.

Recent modifications to Linn's 20-bit *Karik/Numerik* duet (£2,500) have revealed a quicker, cleaner and more detailed sound lurking beneath; but where a highly charged performance is demanded, there's little to beat EAD's *T-1000/DSP-1000* (£2,200).

Cross-fertilisation across brands continues to unearth some surprising and entertaining combinations. For example, the Meridian *563* DAC (£695) is especially well suited to Teac's *P-700* transport (£900), just as the Musical Fidelity *Tubalog* (£500) makes an admirable pairing with the standard digital output of £200-£300 players from the stables of both Philips and Marantz.



Linn *Karik/Numerik*: also worth hearing.

DAC laboratory results compare

	Mission Cyrus Discmaster/Dacmaster			Monarchy Audio DT-40A/M-33			PS Audio Lambda CD Drive/Ultralink 2			Teac P-2s/D-2			Theta Data Basic/Cobalt 307		
	20Hz	1kHz	20kHz	20Hz	1kHz	20kHz	20Hz	1kHz	20kHz	20Hz	1kHz	20kHz	20Hz	1kHz	20kHz
	0.01dB	0.01dB	0.07dB	0.00dB	0.00dB	0.38dB	0.02dB	0.01dB	0.01dB	0.02dB	0.02dB	0.02dB	0.07dB	0.08dB	0.08dB
	126.5dB	113.5dB	93.9dB	133.5dB	115.6dB	92.5dB	131.5dB	124.5dB	114.5dB	148.5dB	135.7dB	115.5dB	59.6dB	90.3dB	99.5dB
	-102.6dB	-95.2dB	-73.6dB	-93.5dB	-91.9dB	-70.5dB	-102.9dB	-101.4dB	-91.5dB	-104.1dB	-100.9dB	-88.9dB	-84.2dB	-88.5dB	-83.4dB
	-81.5dB	-76.5dB	-68.2dB	-78.5dB	-73.8dB	-79.5dB	-87.1dB	-83.5dB	-81.5dB	-67.6dB	-65.7dB	-64.6dB	-61.7dB	-59.2dB	-63.2dB
	-57.2dB	-47.6dB	-36.5dB	-50.2dB	-48.4dB	-56.7dB	-60.4dB	-54.8dB	-61.6dB	-60.0dB	-54.5dB	-53.0dB	-44.7dB	-43.8dB	-38.6dB
	-27.7dB	-27.1dB	-15.9dB	-28.4dB	-28.5dB	-34.7dB	-28.5dB	-32.6dB	-40.4dB	-28.3dB	-30.1dB	-32.6dB	-16.5dB	-24.3dB	-20.2dB
	-19.5dB	-17.6dB	-9.50dB	-15.5dB	-19.2dB	-26.1dB	-18.2dB	-24.1dB	-29.5dB	-10.5dB	-22.3dB	-22.8dB	-16.3dB	-16.5dB	-11.5dB
		-10.7dB			-10.5dB			-21.5dB			-18.4dB			-12.5dB	
		-2.50dB			-5.60dB			-14.0dB			-10.3dB				
														-5.50dB	
		-0.06dB	-0.07dB		+0.01dB	+0.01dB		0.00dB	-0.01dB		0.00dB	0.00dB		+0.05dB	+0.06dB
		-0.17dB	-0.01dB		-0.22dB	-0.10dB		-0.05dB	-0.06dB		-0.11dB	-0.07dB		+0.85dB	+0.84dB
		-0.70dB	+0.25dB		-0.75dB	-0.60dB		-0.45dB	-0.65dB		-0.25dB	-0.35dB		+2.65dB	+1.75dB
		-0.80dB	+1.20dB		-0.45dB	-1.10dB		-0.30dB	-0.65dB		-0.35dB	+0.20dB		+2.40dB	+0.80dB
		2.048V			3.538V			2.487V			2.513V			2.002V	
		2.046V			3.540V			2.489V			2.506V			2.021V	
		+0.2dB			+5.0dB			+1.9dB			+2.0dB			+0.05dB	
		104ohm			106ohm			40ohm			16ohm			49ohm	
		+2.0dB			+3.5dB			+12.3dB			+4.5dB			+2.8dB	
		-86.7dB			-86.5dB			-99.5dB			-98.4dB			-95.3dB	
		>105dB			84.5dB			>105dB			>105dB			103.5dB	
		0.00dB			0.00dB			-0.01dB			+0.04dB			-0.10dB	
		+0.01dB			+0.14dB			-0.02dB			+0.20dB			-0.10dB	
		-0.02dB			+0.51dB			-0.15dB			+0.20dB			-0.14dB	
		96.5dB			101.1dB			114.2dB			103.0dB			99.2dB	
		96.2dB			101.0dB			114.1dB			102.9dB			99.0dB	
		96.2dB			100.8dB			114.1dB			102.9dB			99.1dB	
	Coaxial, AES/EBU			Coaxial, AES/EBU			Coaxial, AES/EBU, AT&T			Coaxial, AES/EBU, AT&T, Toslink			Coaxial, AT&T		
	Coaxial, AES/EBU, Toslink			Coaxial, AES/EBU, Toslink			Coaxial, AES/EBU, AT&T, Toslink			Coaxial, Toslink			Coaxial, Toslink		
		+4.2ppm			+7.5ppm			+16.5ppm			+21.2ppm			+9.1ppm	
		4secs			8secs			3secs			3secs			3.5secs	
	HEU00185/HDU00210			None/09677			FB0576/BC122			40017/90035			7548/307114983		

AUTHORISED DEALER • AUTHORISED DEALER • AUTHORISED DEALER • AUTHORISED DEALER

PRC HI FI & VIDEO

MAIL ORDER

PRC HI FI & VIDEO have a fast, efficient and friendly mail order service available. When placing an order please give credit card details and leave the rest to us. Once an order has been placed our daily Securicor service will make sure it arrives to you quickly and safely. Carriage is only £8 per parcel for systems and £5 for separates (UK only)

PRC PRICE PROMISE

THE PRC PRICE PROMISE: If prior to purchase you can find any of our products advertised elsewhere cheaper (and in stock), we will beat the price at the time of purchase.

081-470 3499

PHONE FOR THE BEST DEAL

LONDON BRANCH

448/450 ROMFORD ROAD, FOREST GATE, LONDON E7 8DF.
Tel 081-470 3499 Fax 081-552 2931. OPEN MON-SAT 9.30am-6pm

ESSEX BRANCH

95 CRANBROOK ROAD, ILFORD ESSEX.
Tel 081-514 7449. OPEN 9.30am-6pm MON-SAT

Access VISA

APPROVED STOCKIST

WE WILL BEAT ANY GENUINE ADVERTISED PRICE

WHAT HI-FI?

marantz CD 52 Mk II



RRP £229.90
£179.95

AWARD WINNER

TOSHIBA 2939DB Dolby Pro-logic

£CALL

WHAT HI-FI?

SONY STS 311



£149.95

AWARD WINNER

SONY TCK 511S



RRP £279.99
£169.95

WHAT HI-FI?

KENWOOD KRV6050



£289.95

AWARD WINNER

PIONEER CLD2850



£CALL

WHAT HI-FI?

Technics SC CH950



IN STOCK

AWARD WINNER

MARANTZ CD53
MARANTZ PM44SE
MISSION 760iSE
10 Metre Cable
£399.95
Save £170

WHAT HI-FI?

marantz CD 52SE Mk II



£PHONE

AWARD WINNER

CANON SC10 Centre Speaker



RRP £199.95
£179.95

WHAT HI-FI?

mission 760i SE



IN STOCK

PRC BEST BUY

polkaudio RM3000



UP TO £100 PART EXCHANGE FOR YOUR SPEAKERS
£PHONE

WHAT HI-FI?

marantz CD63



IN STOCK
FREE £50 DISCOUNT VOUCHER

AWARD WINNER

REL/JBL Home Theatre System

£CALL

WHAT HI-FI?

SONY TCK 611S



£249.95

AWARD WINNER

YAMAHA DSPA2070



IN STOCK

AKAI AUTHORIZED DEALER

FULL RANGE AVAILABLE

B&W AUTHORIZED DEALER

2001	CALL
2002	CALL
2003	CALL
2004	CALL
DM600 Improved	CALL
DM610 Improved	CALL
DM620 Improved	CALL
DM630 Improved	CALL
DM640 Improved	CALL
600 IFS	CALL
Solid Monitor	CALL
Solid Team	CALL
Solid Bass Station	CALL
Single Solid	CALL
Solid Twin Bass	CALL
Solid Team Bass	CALL
Solid Verticale	CALL
Centrale	CALL

beyerdynamic AUTHORIZED DEALER

DT211	£25.95
DT311	£39.95
DT331	£42.95
DT511	£77.95

Headphones now in stock

BOSE AUTHORIZED DEALER

SPEAKERS

AM5 Series 2	£559.95
AM3 Powered	CALL
AM5 Powered	CALL
AM7	£629.95
201/3	CALL
301/3	CALL
901/6	CALL

Complete range of Bose speakers available at excellent rates

Canon AUTHORIZED DEALER

V-100 WD SPEAKER	£179.95
S-30 W1S SPEAKER	£129.95
S-50 W1S SPEAKER	£169.95
S-70 W1S SPEAKER	CALL
SC-10 Centre Speaker	CALL

Jamo AUTHORIZED DEALER

Art	£209.99
Atmosphere	£349.99
Converta	£129.99
Silhouette	£369.99
Comet 60.2	£165.00
Concert II	£319.99
Centre 100 Centre Spkr	£109.95
Centre200 Centre Spkr	CALL
Surround 40wpc	£39.99
S W 300 System	£329.99
SW 500 System	£399.99

Full range of Jamo speakers available at discount rates

JBL AUTHORIZED DEALER

TLX 12 75wpc	£139.95
TLX 14 100wpc	£189.95
TLX 16 125wpc	CALL

HOME THEATRE SYSTEM

HTS1 Home Theatre System	£499.95

Complete range of JBL speakers available

JVC AUTHORIZED DEALER

MINI HI-FI SYSTEMS

ADAGIO G9	CALL
ADAGIO G7	CALL
ADAGIO S6	CALL
ADAGIO S4	CALL
ADAGIO S3	CALL
ADAGIO S2	CALL
MX-55M	CALL

Full range of JVC separates available at discount prices

KENWOOD AUTHORIZED DEALER

MIDI HI-FI SYSTEMS

M27	CALL
M28MG	CALL
M47G	CALL
M56BG	CALL
M57MG	CALL
M76BG	CALL
M77MG	CALL
M97G	CALL
M97MG	CALL

MINI HI-FI SYSTEMS

UD-302	CALL
UD-351M	CALL
UD-501	CALL
UD-551M	CALL
UD-701	CALL
UD-751M	CALL
UD-901	CALL
UD-951M	CALL

TURNTABLES

P100	CALL

AMPLIFIERS

KA-1030	CALL
KA 3020 SE	CALL
KA 3020 45W	£139.95
KA 3050R 45W	CALL
KA 4050R	CALL
KA 5020 80W	CALL
KA-5050R	CALL
KA-7050R	CALL
KAV 3700	£559.95
KAV 7700	CALL
KAV 8500	£559.95

CASSETTE DECKS

KX 3050	CALL
KX 5050	CALL
KX 7050S	CALL
KX 9050S	CALL
KXW 4050	CALL
KXW 4060	CALL
KXW 6060	CALL
KXW 8050	£199.95
KXW 8060	CALL

CD PLAYERS

DP 2050	£139.95
DP 5050	£229.95
DP 7050	£289.95
DPR 4060	CALL
DP M6650	£199.95

CENTRE SPEAKER

CS 6	CALL

GRAPHIC EQUALISER

GE 470	CALL
GE 560	CALL
GE 7030	CALL

RECEIVERS

KRA 4050	CALL
KRV 6050 Dolby Pro-logic	£289.95
KRV 6060	£299.95
KRV 7050 Dolby Pro-logic	£349.95

SUPER WOOFER

SW 700	CALL
SW 900	CALL

SURROUND SPEAKERS

CM5ES	CALL
CM 7ES	CALL

TUNERS

KT 3050	£149.95
KT 2050	£129.95

marantz AUTHORIZED DEALER

CD PLAYERS

CD 52 Mk II	£179.95
CD52SE Mk II	CALL
CD 53	CALL
CD 63	CALL
CD 72D	£289.95
CD 72SE	CALL
CD 10	CALL
CD 12	CALL

RECEIVER

SR 53	CALL
SR 60L	CALL
SR 63	CALL
SR 73	CALL
SR 82	CALL

DIGITAL COMPACT CASSETTE

DD82 DCC	£349.95
DD92 DCC	CALL

AMPLIFIERS

PM32	CALL
PM 700AV Pro-logic	CALL
PM 44SE	CALL
PM 52SE with £50 FREE	£299.95
PM 54SE	£249.95
PM 80SE	CALL
PM 63	CALL
PM 43	CALL
PM 53	CALL
PM 80 II	CALL
AV500 Pre Amp	CALL
MA 500 Power Amp	CALL

CASSETTE DECKS

SD 52	£139.95
SD 53	CALL
SD 62	CALL
SD 63	CALL
SD 415	CALL

Full range of Marantz Hi-Fi separates available

mission AUTHORIZED DEALER

SPEAKERS

760i
760i SE
761i
762i
763i
764i
765i
780
780 SE
781

CD PLAYERS

DAD5
DAC5
CD5

NAKAMICHI AUTHORIZED DEALER

DR-1	CALL
DR-2	CALL
DR-3	CALL

PIONEER AUTHORIZED DEALER

MINI HI-FI SYSTEMS

N-50W	CALL
N-70W	CALL
N-70WM	CALL
N-100W	CALL
N-100WM	CALL

MIDI HI-FI SYSTEMS

J20	CALL
J40	CALL
J200	CALL
J300	CALL
J400M	CALL
J500	CALL
J500M	CALL
JV600	CALL
JV60LD	CALL
JV700	CALL
Impresso3	CALL
Impresso 7	CALL

AMPLIFIERS

A 300X Award Winner	CALL
A 302R	CALL
A 400	CALL
A 400X	CALL

AUDIO VISUAL AMPLIFIER

VSX 452	CALL
VSA 701S	CALL
VSA D 802S	CALL

CASSETTE DECKS

CT W620R	CALL
CT W820R	CALL
CT 445	£139.95

CD PLAYERS

PDS 802	CALL
PDS 901	CALL
PDM 602	CALL
PDM 701	CALL
PDM 802	CALL
PDM 901	CALL
PD 202	£145.00
PDT 303	£149.95
CLD 150 (KARAOKE)	CALL

LASER DISC PLAYERS

CLD 800	CALL
CLD 1850	CALL
CLD 2850	£599.95
CLD M5	CALL

TUNER

F 447	£99.95

polkaudio AUTHORIZED DEALER

CS 100 Centre Speaker	CALL
CS 250 Centre Speaker	CALL
S4 100w Speakers	CALL
S8 150w Speakers	CALL
M3 100w Speakers	CALL

HOME CINEMA

RM3000 3-piece System 125w	CALL
RM5000 4-piece System 250w	CALL

Complete range in stock

SENNHEISER AUTHORIZED DEALER

ALL HEADPHONES AT DISCOUNT PRICES

SONY AUTHORIZED DEALER

COMPACT SYSTEMS
All models available

MINI HI-FI SYSTEMS
All models available

CASSETTE DECKS

TCK411B	CALL
TCK 511S Dolby S	£199.95
TCK611S Dolby S	£249.95

DAT RECORDERS

DTC 60ES	CALL
DTC 690	CALL

TUNERS

STS 311LB	£149.95
STS 505ES	CALL

RECEIVERS

STRD 311	CALL
STRD 511	£249.95
STRD 611	£299.95

MINI DISC

MDS 101	CALL
MDS 505	CALL

LASER DISC PLAYERS

MDP 650	£499.95
MDP 850	CALL

FULL RANGE OF SONY SEPARATES STOCKED

SYSTEMDEK AUTHORIZED DEALER

SYSTEMDEK 1/920 w/o arm	£99.95
SYSTEMDEK 11XE/900 w/o arm	£179.95

TARGET AUDIO AUTHORIZED DEALER

Stands now in stock at affordable prices

Technics AUTHORIZED DEALER

MIDI HI-FI SYSTEMS

SC-CH404	CALL
CDX 320	CALL
CDX 120	CALL

MINI HI-FI SYSTEMS

SC-CH505	CALL
SC-CH515	CALL
SC-CH750	CALL
SC-CH909D	CALL
SC-CH950	CALL

AMPLIFIERS

SU A800	CALL
SU A900K	CALL
SU A700K	CALL
SU A600K	£169.95

CASSETTE DECKS

RS TR979K	CALL
RS TR474	CALL
RS TR373	CALL
RS BX747K	CALL
RS BX646K	£189.95
RS BX501	CALL

CD PLAYERS

SL PS740	CALL
SL PS840	CALL
SL PJ38AK MIDI	£174.95
SL PJ28K MIDI	£129.95
SL PG340	£135.00
SL PG360	CALL
SL PG440	£149.95
SL PG560	CALL
SL PD667	CALL
SL PD867	CALL

PORTABLE CD PLAYERS

SL XP570	£189.95
SL XP150	£87.95
SL XP350	£129.95
SL XP330K	£139.95

GRAPHIC EQUALIZERS

SH GE70K	CALL
S HGE90	CALL

RECEIVERS

SA GX350	CALL
SA GX130LK	£199.95
S AGX230LK	£229.95
S AGX550	CALL

TUNERS

ST G70LK	£199.95
ST G650	CALL
ST G550	CALL
ST 610	CALL

TURNTABLES

SL 1210MkII	CALL
SL 1200 MkII	CALL
SL L20K	CALL
SL BD 22 S/K	CALL
SL BD 20K	£99.95

MIDI SEPARATES (OPTIONAL)

SB S30A	CALL
SB S70	CALL
SHE 85K	£129.95
SHE 51	CALL
SHE 50	£69.95

CENTRE SPEAKER

SP AV 30K	CALL

DIGITAL COMPACT CASSETTE

RS DC10	£579.95
RS DC8	CALL

WHARFEDALE AUTHORIZED DEALER

DIAMOND V	£89.95
415	£99.95
420	£79.95
425	£129.95
435	£199.95
440	CALL
517	£249.99
CRS 3	CALL
CRS 5	CALL
CRS 7	CALL
CRS 9	CALL

MODUS 'HOME THEATRE' PACKAGES

MODUS MOVIES 5	CALL
MODUS MOVIES 4	CALL

YAMAHA AUTHORIZED DEALER

HOME THEATRE

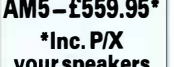
RX-V470	
DSP-A780	
DSP-A970	
DSP-A2070	
DSP-E200	
DSP-E580	
DSP-E1000	
NS-E80	
NS-C80	
DSP-C80	
DSP-C110	
YST-S W50	

FULL RANGE OF YAMAHA SEPARATES STOCKED

PRC BEST BUY

WHAT HI-FI?

marantz PM 44SE



£PHONE
£20 CD VOUCHER FREE

AWARD WINNER

marantz CD10



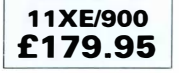
PRE INCREASE PRICE
£PHONE

PRC BEST BUY

BOSE
AM7 – £629.95*
AM5 – £559.95*
*Inc. P/X your speakers

PRC BEST BUY

KENWOOD KAV8500



£579.95

PRC BEST BUY

SYSTEMDEK TURNTABLES 1/920
£99.95
11XE/900
£179.95

PRC BEST BUY

WHARFEDALE SPEAKERS
415 RRP £149.90
£99.95
420 RRP £99.90
£79.95
425 RRP £199.90
£129.95

PRC BEST BUY

ORDER YOUR LASER DISCS BY MAIL ORDER NOW

(ALL PRICES INC VAT)

TOP 40 NTSC LASER DISC TITLE

No.	TITLE	PRICE
1	Age Of Innocence	£37.51
2	Fugitive	£36.06
3	Goodfellas	£28.50
4	Top Gun	£33.15
5	Indiana Jones & Last Crusade	£37.51
6	2001 A Space Odyssey	£37.51
7	Cape Fear	£36.06
8	Lethal Weapon 3	£28.50
9	Black Rain	£37.51
10	Zulu (criterion edition)	£55.55
11	Searchers	£36.06
12	Last Of The Mohicans	£37.51
13	Excalibur	£36.06
14	Star Trek VI	£33.15
15	Jaws	£36.06
16	Fiddler On The Roof	£37.51
17	Ben Hur	£43.91
18	Alien	£33.15
19	Somersby	£31.70
20	Malcolm X	£36.06
21	Forever Young	£31.70
22	Unforgiven	£36.06
23	Dangerous Liaisons	£28.50
24	Blues Brothers: The Movie	£36.06
25	La Femme Nikita	£33.15
26	Deer Hunter	£42.17
27	Backdraft	£36.06
28	Alien 3	£37.51
29	7 Brides for 7 Brothers	£33.15
30	New York New York	£37.51
31	When Harry Met Sally	£37.51
32	Demolition Man	£31.70
33	Red Dawn	£33.15
34	Passenger 57	£28.50
35	Hard Target	£33.15
36	What's Love Got To Do With It	£37.51
37	Raiders Of The Lost Ark	£33.15
38	Full Metal Jacket	£24.14
39	Another Stakeout	£37.51
40	The Firm	£37.51

TOP 40 PAL LASER DISC TITLES

No.	TITLE	PRICE
1	In The Line Of Fire	£33.49
2	Sneakers	£23.98
3	1492 Conquest Of Paradise	£33.49
4	Sleepless In Seattle	£23.98
5	Groundhog Day	£23.98
6	Dracula (Bram Stokers)	£33.49
7	Ghostbuster 1 & 2	£33.49
8	Dances With Wolves	£38.49
9	A Few Good Men	£33.49
10	Terminator 2	£33.49
11	Universal Soldier	£23.98
12	Cinema Paradiso	£28.95
13	A.W.O.L.	£23.98
14	Scent Of A Woman	£33.49
15	Taxi Driver	£23.98
16	Stone Cold	£23.98
17	Candyman	£23.98
18	Kate Bush – Whole Story	£18.99
19	David Bowie – Video Collection	£18.99
20	Lawrence Of Arabia	£33.49
21	Total Recall	£18.99
22	Mystery Date	£23.98
23	Extreme Prejudice	£23.98
24	Lawnmower Man	£23.98
25	Silence Of The Lambs	£23.98
26	They Live	£23.98
27	Man Bites Dog	£28.95
28	Diana Ross – One Woman	£18.99
29	Genesis – Way We Walk	£28.99
30	Kramervs Kramer	£23.98
31	Tootsie	£23.98
32	Flatliners	£23.98
33	Madhouse	£23.98
34	Single White Female	£23.98
35	Air America	£23.98
36	Misery	£23.98
37	House Party	£23.98
38	Last Exit To Brooklyn	£38.49
39	Tina Turner – Simply The Best	£18.99
40	Close Encounters	£33.49

LASER DISCS – PAL + NTSC. OVER 8,000 TITLES AVAILABLE PHONE 081-470 3499 NOW FOR GUARANTEED BEST DEAL

The MUSICAL IMAGES Club

HOTLINE 081-952 5535

Membership of the MUSICAL IMAGES CLUB gives you access to all the leading developments in the world of Hi-Fi and Home Entertainment

First 1000 people to join the Musical Images Club after 1/5/94 will get

Vouchers worth £100 FREE

Usable against BEST BUY & AWARD WINNING PRODUCTS

★ STOP PRESS ★ Vouchers can be used with other offers until 30/8/94
and have no equivalent cash value

PERSONAL CALLERS WELCOME AT MUSICAL IMAGES BRANCHES

MAIL ORDER WORLDWIDE (081) 952 5535

DEMO ROOMS – HOME CINEMA SPECIALIST

- Exclusive invitations to special manufacturers' demonstration evenings – your opportunity to sample the very latest products
- Exclusive and priority offers on both new and ex-demonstration equipment, accessories and all kinds of upgrades and add-ons
- Competitions, special deals and added value purchasing exclusive to club members.

45 HIGH STREET,
HOUNSLOW,
MIDDLESEX
TW3 1RH
☎ (081) 569 5802

173 STATION RD,
EDGWARE,
MIDDLESEX
HA8 7JX
☎ (081) 952 5535

CLUB SPECIAL – SPEND

£100 ▸ CLAIM ▸ £15
£300 ▸ GOODS ▸ £50
£500 ▸ WORTH ▸ £85
£1000 ▸ ▸ £200

FREE

NOT WITH ANY OTHER OFFER AND UNTIL 15/8/94 E.& O.E.

OR

BUY AUDIO VISUAL EQUIPMENT

NEW

AND COLLECT

AIR MILES VOUCHERS

AIR MILES Travel the World

For every £1 SPENT
GET ▸ 1 AIR MILE AWARD

NOT WITH ANY OTHER OFFER AND UNTIL 15/8/94

MAIN AUTHORISED DEALERS FOR OVER 100 MANUFACTURERS

Join Today – only 1000 free voucher packs available

☐ Yes, please commence my subscription to the MUSICAL IMAGES CLUB for £10
☐ I enclose a cheque for £10 payable to MUSICAL IMAGES
☐ Please charge my credit card VISA/ACCESS

☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐

Name: .....
Address: .....
.....
.....
..... Postcode: .....
Exp: ...../..... Signed: .....

If you do not wish to receive promotional literature from other selected companies please tick ☐
As a Club Member tick one box only: I will takeFree Goods ☐ I wil collect Free Air Miles ☐
Please send completed coupon for: MUSICAL IMAGES, 173, Station Road, Edgware, Middx HA8 7JX.



bit by bit

Does your recorder hiss you off?

Fed up with old fashioned compact cassettes? Then why not go digital, as Richard Black and Paul Miller measure up four of the latest hi-tech recorders.

In the last couple of years, two entirely new audio recording formats have appeared: Philips' Digital Compact Cassette (DCC) and MiniDisc (MD) from Sony. Both use digital data compression to get a reasonable playing time on a realistically-sized carrier, with what is claimed to be 'near-CD quality'. At the other extreme, Pioneer has introduced a digital audio tape (DAT) recorder which samples music at 96kHz instead of the usual 44.1kHz or 48kHz. This adds a whole extra octave to the response and a whole new dimension to digital audio.

We tested these three technologies alongside recordable compact disc (CD-R), a largely pro-audio system which yields discs that can be played in a normal CD player.

To test these formats under demanding but fair conditions, we set up a recording session, featuring Geraldine Denny (clarinet), Rebecca Lodge (soprano), Clare Parkholm (cello) and myself (Richard) on piano, to get a wide range of instrumental sounds and characteristics. The recording was made in a London church with quiet surroundings, good acoustics and a decent resident piano. The microphones used were based on Calrec capsules, with my own design of electronics to give a line-level output to drive a tape recorder directly. A conventional (48kHz) DAT recorder was used as a reference.

Subsequent listening was performed on two systems; a painstakingly tweaked and aligned EAR/Quad electrostatic-based system belonging to Jan Lewinski (who assisted in the recording), then my own ATC *SCM20* and customised amplifier system. All recorders were auditioned principally as analogue in/analogue out machines.

BUILD QUALITY	
Marantz CD-R610	★★★★★
Philips DCC600	★★★★★
Pioneer D-07	★★★★★
Sony MDS-501	★★★★★

As befits its £3,800 price-tag, the Marantz *CD-R610* easily leads the field here. It's built on a very substantial cast chassis, stuffed full of high quality circuit boards. Most of these boards are densely populated with surface mount components. As the fussy audiophile would point out, neither its extensive use of 5532 op amps nor its wiring loom are ideal for sound quality, although both are absolutely representative of about 99 per cent of pro-audio design practice.

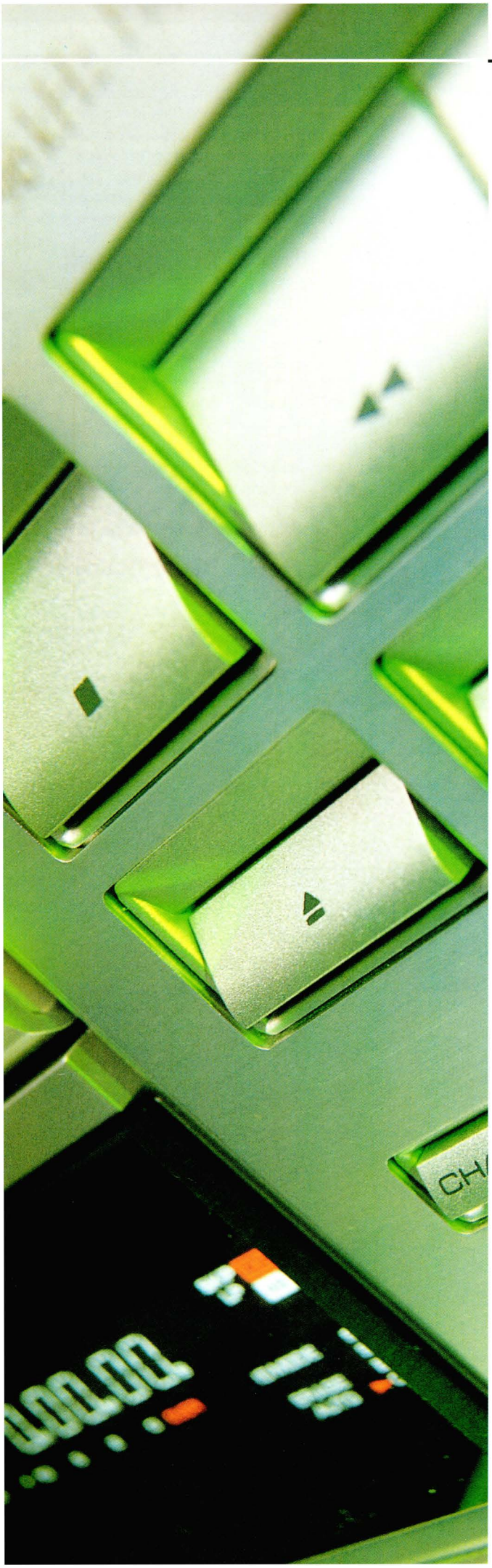
Pioneer's £1,195 *D-07* is also well made, although with obvious signs of its domestic hi-fi origins in areas like circuit board materials and components. On the other hand, it also has a few audiophile tweaks, with copper foil-wrapped capacitors and copper sheet stuck on critical integrated circuits. There is actually surprisingly little inside the case, given that 96kHz sampling DAT (Super DAT) is a new technology. This is no doubt due to Pioneer's use of their own integrated circuit design facility to combine as many functions as possible on a few small chips.

The £799 Sony *MDS-501* looks very smart from the outside and is generally well put together, but close inspection shows up a few 'tweaks', evidently in order to fix problems found after the circuit boards were in production. The MiniDisc mechanism is compact and appears to be a fully productionised unit, although this machine is Sony's first non-portable MD recorder.

Even taking its low price into account, the £299 Philips *DCC600* seems rather plasticky. Still, it is well put together internally, with similar build and component quality to the *MDS-501*. The transport is a rather complicated affair of plastic mouldings and gears, but plastic mechanisms like this are

Comparison Table

	Marantz CD-R610	Philips DCC600	Pioneer D-07	Sony MDS-501
System	Write-once disc	Rewriteable tape	Rewriteable tape	Rewriteable disc
Digital inputs	Toslink, coaxial, balanced	Coaxial	Toslink, coaxial	2 Toslink
Digital outputs	As above	Coaxial	Toslink, coaxial	Toslink
Max. continuous record time	74mins	53mins	60mins (96kHz) to 240mins (32kHz)	74mins
Sampling rate (analogue in)	44.1kHz	44.1kHz	32/48/96kHz	44.1kHz
Sampling rate (digital in)	44.1kHz	44.1kHz	32/44.1/48kHz	32/44.1/48kHz
Price	£3800	£299	£1195	£799
Blank media price (approx. for 1 hour)	£18	£6	£8	£7



generally very reliable unless mistreated. Since it uses motorised tray loading, opportunities for maltreatment are vastly reduced compared with normal cassette decks.

FACILITIES AND ERGONOMICS	
Marantz CD-R610	★★★★★
Philips DCC600	★★★★★
Pioneer D-07	★★★★★
Sony MDS-501	★★★★★

The *CD-R610* has the most complex front and rear panels of the four machines, but the smallest number of features. Basically, you can record and you can play back. It is also possible to do basic editing, by marking tracks or portions of tracks for skipping. Recordable CDs can only be recorded once, which places a great constraint on flexibility. Once a CD has been recorded, it can only be played back on a CD-R machine until it gains a Table of Contents (TOC), after which time it can be played on any CD player, but can no longer be recorded on at all. Even after the addition of a TOC, any sections marked for skipping will only be skipped on a CD-R machine.

Where the *CD-R610* really scores is on interconnection flexibility. It has analogue inputs and outputs (balanced only) alongside 75ohm unbalanced, Toslink and 110ohm balanced digital inputs, allowing it to accept any professional or domestic digital audio format. It can be daisy-chained with other recorders, and remotely controlled by infra-red or wired remote, or an external event controller.

The Pioneer *D-07* has the unique feature of its 'wide', double sampling (96kHz) mode, but it also handles normal (48kHz) and long play (32kHz) recording and replay, plus 44.1kHz recording via digital inputs (coaxial and Toslink). It writes and reads the normal DAT start and skip IDs, which allow for very basic editing. It allows the user to enter track titles which scroll across the display, but the procedure for doing this is so tiresome that I can't imagine anyone bothering frequently.

The Philips *DCC600* essentially offers no more features than analogue cassette, except for the ability to display pre-recorded track titles on certain recordings. It can divide recordings into tracks and search for them by number, and will play analogue cassettes. Forthcoming machines should address the issue of slow winding and track searching and will allow the entry of track names.

The *DCC600* has a number of irritating features, from the way it defaults to the digital input every time it is switched on, to the slow and clunky response of the mechanism. It also automatically writes track start markers after every four second pause, which can be infuriating. Because the tape plays both ways, the maximum continuous recording time is only 53 minutes, but it is possible to write markers which either reverse direction on the spot, or wind to the end and then reverse.

MiniDisc only lacks the ability to go rapidly to a given spot within a track (also missing from most CD players). Apart from that, track access is as fast as CD and of course one can program the playing order. Even better, tracks can very easily be divided, moved, combined and deleted after recording to cut out awkward pauses and give the desired running order. This means that the discs can be re-used almost indefi-

Format wars

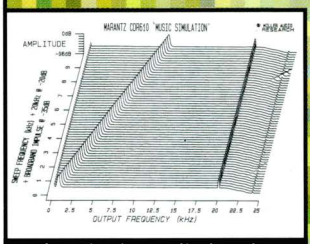
Why the upsurge of new formats? The big electronics giants say that people have had a taste of digital audio and want a digital replacement for cassette, for home and mobile use. DAT is a professional and semi-pro format that never took off for home use because the mechanism is too complex to make cheaply and tapes can't be mass-duplicated. A lack of pre-recorded software and early industry concerns about pirates making perfect copies helped speed DAT's demise as a domestic format, despite the efforts of labels like Factory and Chandos.

CD-R also raises the issue of piracy, which is a large part of the reason why you won't see cheap CD-R machines (anyway, a blank CD-R currently costs nearly £20) until the piracy issue is resolved. Hence Philips' DCC and Sony's MD, both touted as 'The Future'. Both formats use data compression, not only for practical reasons but to reduce the threat of 'perfect' pirates, thus making them acceptable to the record companies, without whose support any new software format is sunk from the start.

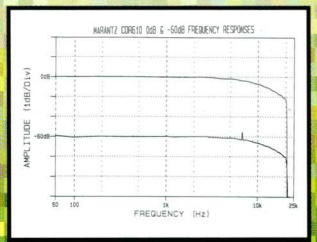
But which format should one buy? If you want to record live from decent microphones, then buy DAT, Super DAT, CD-R or even open reel analogue, as your budget allows. But if, like most people, you want to make tapes for the car, for a friend or for a portable, or record the odd radio programme, DCC and MD are very close on sound but differ radically in use. MD is dearer at the moment and DCC is slightly more familiar, but even so it's hardly selling in phone numbers. If we wait and see, both formats may fizzle out anyway. Come back cassette, all is forgiven?



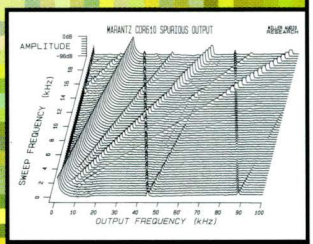
Marantz' CD-R610 looks cool and kicks digital recording ass if you can afford the hard and software.



No loss in the audio band. Everything is filtered above 20kHz, in accord with CD standard.



Mild 1dB drop in treble should have little or no subjective consequence.



In-band sampling images and massive increase in distortion only occurs near peak output.

nitely. Tracks can be titled, and all recordings are automatically marked with date and time of recording. After cassette, MD's random-access disc recording is a joy. For example, pop a half-filled disc in the player and within four seconds you have a display telling you how much time remains to be filled. Press record and start and you are at once creating a new, appropriately-numbered track right after the last one.

Both the *DCC600* and the *MDS-501* will record from a digital input: the *DCC600* has coaxial input and output sockets only, while the *MDS-501* has Toslink only (two inputs, one output). Both record at 44.1kHz sampling rate, but while the *DCC600* only accepts 44.1kHz data, the *MDS-501* can convert from 48kHz digitally. Given that a stand-alone rate converter costs over £600, it's not a bad feature to have.

SOUND QUALITY	
Marantz CD-R610	★★★★★
Philips DCC600	★★★★★
Pioneer D-07	★★★★★
Sony MDS-501	★★★★★

First, the good news; if you've been fearing the worst from DCC and MD, you'll be pleased to hear that they are really not at all bad. Although at no point during auditioning was anyone in danger of preferring either one to CD-R, taken in isolation both could have been mistaken for the average commercial CD.

The first track recorded, and therefore the first listened to, was Saint-Saëns' *Sonata for Clarinet and Piano*. Of particular interest here was the comparison between CD-R and Super DAT, the latter portaying slightly more ambient information and a marginally purer clarinet tone. Having worked extensively with Geraldine, I am familiar with her sound and this tone seemed more accurate. However, CD-R seemed more precise in its image placement and more detailed in its presentation of information.

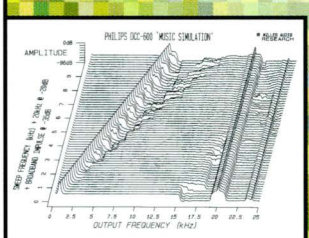
This may seem like a paradox, one recorder seeming to have more information yet less precision than the other, but this finding was repeated on every track. It can only sensibly be explained by the Super DAT's extra octave of response being compromised by the inability of the converters and filters used to produce exactly the same standard of detail.

Both DCC and MD lost some ambience and rendered the attack of piano notes less clearly defined. DCC seemed very slightly more natural, but the difference was small and, as with many such digital signal processing artefacts, varied from minute to minute. The benchmark — normal DAT — was resolutely in the middle, between Super DAT and CD-R on the one hand, and DCC and MD on the other, a position it maintained throughout.

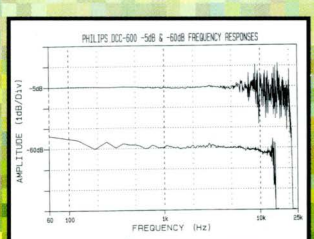
In the impassioned climax of the *Embroidery Aria* from Britten's *Peter Grimes*, the CD-R was unequalled in capturing the tonal strength in Rebecca's voice. Super DAT came close to the CD-R recording, leaving DCC and MD bringing up the rear with a rather sani-



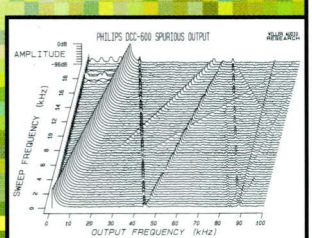
Philips *DCC600*: the least expensive route to digital recording in the home.



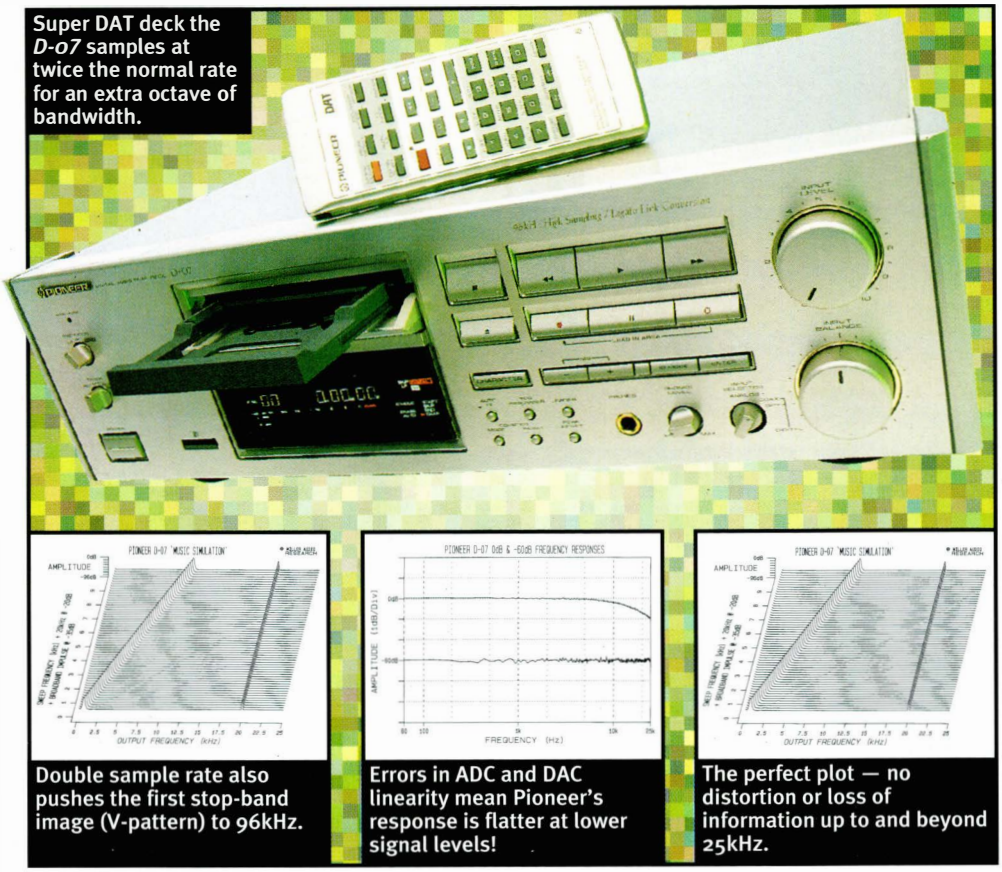
Huge gullies of information are deemed inaudible by PASC and are removed before recording.



The PASC Bit-pool quickly evaporates, creating uncertainty in its treble response at high levels.



This plot could have come from any SAA7321-based CD player, except for tell-tale noise (top left).



Super DAT deck the *D-07* samples at twice the normal rate for an extra octave of bandwidth.

Double sample rate also pushes the first stop-band image (V-pattern) to 96kHz.

Errors in ADC and DAC linearity mean Pioneer's response is flatter at lower signal levels!

The perfect plot — no distortion or loss of information up to and beyond 25kHz.

tised and less involving sound. By contrast, the gentler *Not While I'm Around* from Sondheim's *Sweeney Todd* was best served by the Super DAT, which clearly showed the advantage of its extra octave of treble by reproducing consonants (especially sibilants) much more cleanly than the other recorders.

Solo cello in a couple of Bach cello suite movements was relatively flattered by all the recorders. Again, the CD-R was the most precise, but the only area in which DCC and MD fell down was impact. They both sounded a little polite and 'hi-fi' compared with the more raw and immediate CD-R and Super DAT.

Ronald Stevenson's *Prelude and Fugue* on Busoni's *Doktor Faust* is the sort of piano piece that stretches recording gear to the limit, rapidly covering the entire frequency and dynamic range of the piano with frequent and sudden contrasts. CD-R reproduced the whole effect with great panache, giving a solid image and plausible acoustic. Once again, the Super DAT hinted at greater detail on leading edges and high treble notes but sounded just a tiny bit strangulated.

MD seemed happier than DCC on very loud passages but a little less clear and defined at moderate levels, while DCC, although seeming to run out of energy on sudden loud notes, made slightly more sense of the complicated ending of the fugue. Both became a little fatiguing during the course of this (nine minute) track; though, frankly, to a lesser degree than some low-budget CD players.

Subsequently copying this track digitally from CD-R to DCC and MD, and replaying both through a high quality external DAC, proved conclusively that neither DCC nor MD has the world's best converters. Surprisingly, via the external DAC, the sound could easily be confused with the uncompressed original, in casual listening at least. Only some lessening of attack and reduction of absolute scale gave the game away. They sounded more similar than ever in this mode.

VERDICT

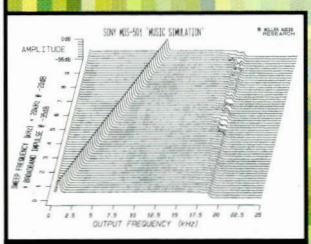
Marantz CD-R610	★★★★★
Philips DCC600	★★★★★
Pioneer D-07	★★★★★
Sony MDS-501	★★★★★

The Marantz *CD-R610* is obviously a serious, high-grade, professional recorder, but its price and the format's limitations make CD-R effectively a non-starter for home use (well, what would you use it for?). However, for professional or well-heeled amateur recording use, recordable CD has much to recommend it.

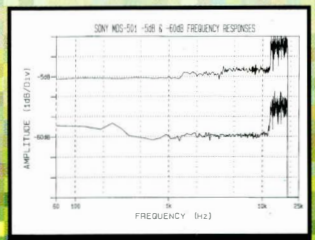
Pioneer's *D-07* Super DAT gives a hint of what can be achieved when the technology becomes more mature (an equivalent double-sampled CD could really be interesting). Even as it stands, it is an attractive proposition if you want to make high-quality recordings for domestic and semi-pro use, and its cost, compared to the *CD-R610,* makes the *D-07* reasonably priced. Not to mention the



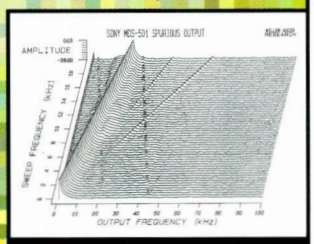
Sony's *MDS-501*: instant track access, easy peasy recording and appealing little diskettes.



All musical information, regardless of content, is stripped away above 18kHz by ATRAC.

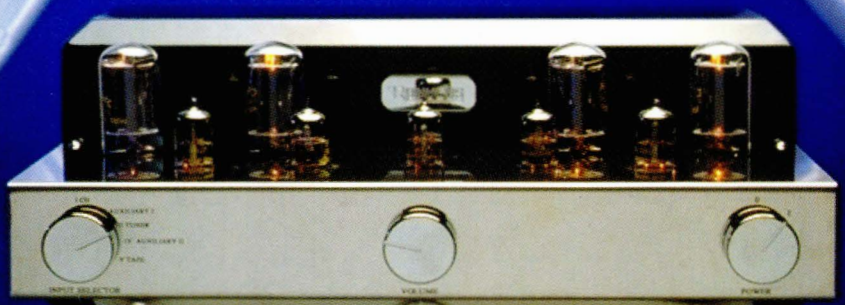


ATRAC provides a spurious +1.5dB treble boost before dropping sharply above 18kHz.



Quiet detail is masked by a shoulder of noise surrounding dominant treble signal.

ROMULUS
BY C.R. Developments Ltd.



C.R. Developments Ltd.
8 Craftsman Square Temple Farm Industrial Estate, Sutton Road, Southend on Sea, Essex SS2 5RH
Tel 0702 469055, Fax 0702 601883 (Demonstrations by appointment.) Phone for your nearest dealer.



It costs the same to get it right as it does to get it wrong.

At the Listening Rooms, we pride ourselves on matching your needs with exactly the right equipment, whatever your budget, and because we only stock the best, that's what you'll get.

What you'll also get is sound professional advice and a chance to relax and listen to some of the world's finest Hi-Fi equipment.

35 years combined experience.
Two Fully equipped listening rooms.
Home installation service.
Multi-room design and installation.
2 years Parts and Labour guarantee.
Home cinema surround-sound.
Export and Credit facilities.

• LINN • QUAD • MERIDIAN • NAKAMICHI • ARCAM • AUDIOLAB • ACOUSTIC ENERGY • SME • AUDIO RESEARCH •
• KRELL • CLASSE AUDIO • WADIA • THETA • APOGEE • MARTIN LOGAN • SONUS FABER • MUSICAL FIDELITY •
• REL • ROGERS • PIONEER • TANNOY • STAX • AURA • LEXICON • SYSTEMDEK • PINK TRIANGLE • MICHELL •
• MONITOR AUDIO • YAMAHA • MARANTZ • KEF • BOSE • CELESTION • EPOS • MISSION • DENON • NEAT PETITE • CYRUS •

THE listening rooms

161 Old Brompton Rd. London SW5 0LJ. Tel: 071- 244 7750/59. Fax: 071-370 0192.
Monday – Saturday 10am – 6pm. Nearest Tube: South Kensington or Gloucester Road.

Data compression – what is it?

Basically, data compression (as incorporated in Philips' PASC and Sony's ATRAC) is a trick for recording only the essentials of a music track, to reduce the amount of data that must be put on a disc or tape. The success in defining the 'essentials' as we hear them determines the audible success or failure of data compressed formats.

major difference in software prices.

Both DCC and MD seem to fulfil their promise of an enhanced replacement for cassette where sound is concerned, both being entirely acceptable as a home recording format. They are still being developed, but at the moment the contest between them is not on sound but on features and ergonomics.

Unless the issue of compatibility is your main concern, Sony's *MDS-501* offers everything while Philips' *DCC600* has a way to go. However, it must be remembered that the Philips DCC is an older and cheaper model, although even with Philips' promised enhancements, it will never match a disc format for ease of use. It will be interesting to see how the market develops, assuming the price of MD comes down soon. But for myself, I want MiniDisc recorder and I want one now.



Unfortunately not for this world, CD-R is priced to remain the exclusive domain of pro-audio.

Comparison Table

Viewed together, the graphs that accompany our four digital recorders vividly demonstrate the fundamental differences between all four formats. Crucially, the bandwidth of the CD-R and DAT recorders is limited solely by their respective sample rates. By contrast, both the bandwidth and content of recordings made on DCC and MiniDisc players are determined by their PASC and ATRAC data reduction programs.

This is revealed in the response plots of the *CDR-610* which, in accordance with its 44.1kHz sample rate, rolls-off sharply above 20kHz. However, the *D-07*, with its elevated 96kHz sample rate, extends way beyond 25kHz at the edge of the graph. The flat -60dB trace is caused by the compressive linearity trend of its ADC and DAC (see table) which provides a complementary treble boost.

Broadly speaking, the response of Sony's ATRAC remains unaffected by level but Philips' PASC progressively ditches high treble detail as the signal level is reduced. The erratic nature of the responses is caused by the uncertainty of both ATRAC and PASC at high frequencies, their respective 'bit-pools' (number of bits available for coding) being monopolised by bass and midrange sounds.

The *CDR-610*'s 3D Spurious Output plot shows an unusually high amount of distortion (max 1.6 per cent) which is joined by sampling images (-67dB) within the audioband. This is a specific problem and is restricted to the last 0-3dB of the recorder's dynamic range. Only the *MDS-510* betrays evidence of digital jiggery-pokery, seen as noise masking signals either side of the main sweep at 8-20kHz.

Instead it's the 'Music Simulation' plots that expose the true nature of each beast. Take the Pioneer *D-07* as a notional reference, its -60dB floor representing broadband low-level musical detail that stretches from 0-25kHz. The *CDR-610* simply demonstrates the limits of the CD sample rate while Sony's ATRAC data reduction casually abandons any information beyond 18kHz.

Despite the limited 4:1 data reduction rate of Philips' PASC (Sony's ATRAC reduces from 5:1, chopping incoming data to 20 per cent of its original size), it has the most dramatic effect on recorded signals. Although the 20kHz tone is retained, large areas of information — deemed inaudible in the presence of bolder signals — are sacrificed.

Evidently, though PASC data reduction appears more violent than Sony's ATRAC, by following a more complex set of 'rules' it is also more adaptable. Whether these rules are entirely realistic, however, is another matter.

Paul Miller

Comparison Table

		Marantz CDR610			Philips DCC-600			Pioneer D-07			Sony MDS-501		
		20Hz	1kHz	20kHz	20Hz	1kHz	20kHz	20Hz	1kHz	20kHz	20Hz	1kHz	20kHz
Channel Balance		0.06dB	0.06dB	0.15dB	0.07dB	0.08dB	0.08dB	0.03dB	0.03dB	0.13dB	0.00dB	0.02dB	0.04dB
Channel Separation		98.9dB	108.5dB	104.6dB	100.1dB	110.4dB	81.5dB	118.1dB	98.5dB	64.3dB	114.5dB	109.2dB	84.6dB
THD vs Level	0dB	-102.8dB	-77.6dB	-35.9dB	-90.5dB	-90.0dB	-69.3dB	-95.1dB	-92.2dB	-81.0dB	-94.2dB	-93.7dB	-81.9dB
	-30dB	-85.9dB	-77.3dB	-51.5dB	-77.1dB	-71.0dB	-66.9dB	-79.4dB	-61.8dB	-67.5dB	-81.5dB	-74.5dB	-59.1dB
	-60dB	-49.2dB	-45.8dB	-20.5dB	-43.2dB	-47.9dB	-35.3dB	-43.6dB	-37.6dB	-35.2dB	-44.5dB	-45.0dB	-30.7dB
	-80dB	-23.7dB	-28.1dB	+0.50dB	-17.1dB	-25.0dB	-13.5dB	-42.5dB	-24.3dB	-21.7dB	-25.5dB	-25.8dB	-9.50dB
Dithered, 90dB		-11.3dB	-18.5dB	+7.50dB	-10.3dB	-13.5dB	-3.50dB	-30.4dB	-15.5dB	-13.0dB	-17.4dB	-17.5dB	-2.50dB
Dithered, -100dB			-11.7dB			-9.75dB			-7.20dB			-8.4dB	
Dithered, -110dB			-4.50dB			-2.50dB			—			—	
ADC/DAC Resolution @	-60dB		-0.04dB	+0.60dB		+0.05dB	-0.20dB		-0.20dB	+0.20dB		0.00dB	—
	-80dB		-0.06dB	+0.75dB		+0.05dB	-1.20dB		+0.40dB	+0.35dB		+0.10dB	—
	-90dB		+0.25dB	+0.90dB		-0.40dB	**		+0.75dB	+0.90dB		+0.55dB	—
	-100dB		+1.05dB	+1.40dB		+1.05dB	**		+1.10dB	+1.35dB		+0.75dB	—
Analogue input sensitivity for	0dB		627mV/3.597V			144.0mV			292mV			596.0mV	
0dB Output Level,	L		6.299V			2.030V			2.337V			2.058V	
	R		6.346V			2.050V			2.330V			2.056V	
Relative Output Level			+10.0dB			+0.2dB			+1.3dB			+0.24dB	
Output Impedance			104ohm (balanced)			315ohm			970ohm			923ohm	
1Hz Noise Modulation			+2.4dB			+3.9dB			—			+9.1dB	
CCIR IMD, 0dB			-62.1dB			-95.3dB			-90.5dB			-98.5dB	
Suppression of stop-band IMD			63.1dB			54.3dB			70.3dB			73.6dB	
De-emphasis Accuracy, 1kHz			0.00dB			-0.38dB			No de-emp			-0.09dB	
	5kHz		-0.10dB			-1.23dB			No de-emp			-0.06dB	
	16kHz		-0.86dB			-1.20dB			No de-emp			0.00dB	
S/N Ratio (A-wtd), w emp,	0LSB		97.4dB			99.6dB			108.5dB			93.8dB	
	w/o emp, 0LSB		97.5dB			97.0dB			108.5dB			102.5dB	
	w/o emp, 1LSB		97.3dB			96.9dB			108.4dB*			98.3dB	
Crystal Clock Accuracy			-40.4ppm			-16.3ppm			0.00ppm/0.00ppm			-70.7ppm	
Serial Number			AH01-9407-530001			AH01-9316-204082			NJ8400286			35944	
Typical Price			£3,800			£500			£1,149.95			£799	

SL SonicLink

20 Derwent Business Centre,
Clarke Street, Derby DE1 2BU
Telephone: 0332 674929
Fax: 0332 298836
Send A4 SAE for nearest dealers

Read below the verdict from a recent interconnects supertest in What HiFi? Then visit your local Sonic Link dealer.

Sonic Link Violet £80 **Verdict** ★★★★★

Violet cable works well in high quality system where information retrieval is a priority. Despite having warmer, fatter bass than Pink or Red, it remains exceptionally clear and detailed, especially in the mid-range and treble. Music's upper registers are very delicately portrayed but instruments nonetheless have a reassuringly solid feel. Not suitable for ragged-sounding systems.

Sonic Link Pink £25
Verdict ★★★★

This ultra-slender cable looks unconventional and home-brewed, but it does offer a respectably detailed and cogent sound. Pink's tonal balance is rather light, due to its lean, dry bass, but it doesn't sound too forward in a well balanced system thanks to very refined treble and good overall clarity. In fact this cable's fast, rhythmically urgent sound is very appealing.

Sonic Link Red £45
Verdict ★★★★

Just like Pink, Red is also skinny, but packs loads of musical information into its slim and modest diameter, recommended as a CD to preamp link, red is vividly detailed with a vibrant and lively tonal balance, which is aided and abetted by good dynamic contrast and slick timing. Provides bass with far more substance and weight than the less pricier Pink leads.

Sonic Link Blue £120
Verdict ★★★★

Blue uses Sonic Link's rhodium plateplugs, which are claimed and certainly seem able to out perform the more common gold plated variety. Blue has a very clean and spacious sound that captures low level detail very well. Like the Violet cables though, it can be too revealing for s system.

Sonic Link Black £150
Verdict ★★★

A heavyweight, even by Sonic Link standards, this cable uses silver-plated cable and rhodium plugs. Its sound is too weighty too, but bass sounds over-bloated, slowing lively music right down. We still prefer the cheaper Blue cable, which gives bass lines more intonation and flow, resulting in the music seeming faster and better articulated overall.

SPALDINGS

The South East's Leading Hi-Fi Specialists

352-354 Lower Addiscombe Road Croydon Surrey CR0 7AF

081 654 1231/2040

Announcing . . . the
ELEKTRA Integrated &
EOS Power Amplifiers



Arion ACOUSTICS

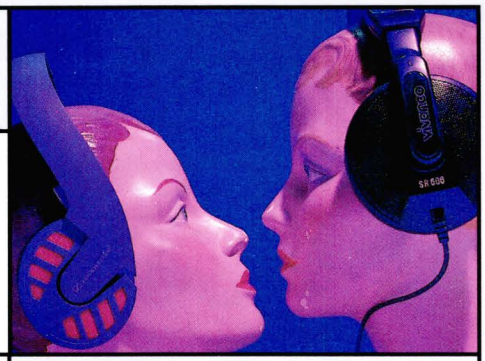
MAKE THE LEAP
FROM AUDIO TO . . REALITY

ELEKTRA INTEGRATED £999
EOS POWER £899
TOTAN MAINS FILTER £125
SILVER INTERCONNECT AND
DIGITAL CABLES FROM £75
SILVER SPEAKER CABLES
FROM £25 per m

Worldwide sales agents
KRONOS DISTRIBUTION
35 Farlough Rd. • Newmills
Dungannon • N. Ireland
Tel 0868 748632
Fax 0868 748281

On Test

Headphones



The cast list

AKG *K70*	£39.95
Audio Technica *ATH-M2a*	£27.95
Beyer-dynamic *DT 311*	£49.95
Koss *TD/60*	£29.99
Maxell *HP-3000*	£29.99
Pioneer *SE-400D*	£36.95
Ross *RCH-300CD*	£19.99
Sennheiser *HD320*	£39.95
Sony *MDR-CD450*	£44.99
Vivanco *SR606*	£39.99

Will Alvin Gold find comfort in a pair of £20-£50 headphones, or will the latest technology get the better of them?

We are living through a period of turmoil and revolution. New technologies proliferate: black vinyl records have been usurped by compact discs, while a battle for supremacy rages between DCC, MD, DAT — all right, not DAT — and who knows what else lies just around the corner.

A seemingly endless variety of variations on the CD theme are vying for your allegiance and your money, with digital radio and digital speakers around the corner. Even familiar and comforting concepts like two speaker stereo are up for examination. And headphones, what part do they play in these unsettling but exciting times? How has their technology advanced to meet the new challenges?

The answer is that with a few honourable exceptions, standards have either remained stable, or they have even regressed. While everything has changed around them, headphone designers seem to have been, to coin a phrase, out to lunch.

Let's backtrack for a moment. Tested here are 10 headphones in what might be described as the entry level band for serious designs, centred on £30 to £40. The last full test in *Choice* appeared around a year ago, but I have been running similar tests for much longer than this, and it is this perspective that underpins the critical tone of the comments expressed above.

True, there are one or two models in this test that show real advances, either in technology or in the understanding they show of the problems inherent in music reproduction through headphones. The rest, however, do not. Looking at the group as a whole, there are perceptible signs of backsliding in at least one important area.

For the last couple of decades, the standard has been set by so-called open back or vented headphones, whose simplicity, and intrinsically open and uncoloured sound, turned a generation on to headphones-based music. Now there are signs of a retreat towards an older and more problematic technology, namely the sealed or closed back headphone.

This change is highly significant. Sealed headphones are what the phrase suggests: headphones which form an acoustic seal around the ears, and behind the drive unit, to prevent the listener being disturbed by the sounds of the outside world, or polluting that same outside world with whatever you're listening to.

These are laudable enough aims, though it should not be forgotten that music played at normal levels through headphones will drown out much of the environmental static without the need to erect additional barriers.

But this is beside the point, which is that designing sealed headphones, and compact sealed headphones in particular, is more exacting than designing open back models. The evidence of this test, in fact, is that it is all but impossible to design decent sealed headphones at the prices we're looking at here. However, as ever there is just one exception to prove that the idea isn't an entirely lost cause.

Personal hi-fi or accessories for a personal?

It is tempting to use high quality, high fidelity headphones to upgrade the performance of a personal stereo, and on the whole this makes sound musical sense. However, there are one or two points to watch. Most of the headphones tested are far from discreet, though there are important differences, with the largest, the Sony *MDR-CD450*, being several times as bulky as the Audio-Technica *ATH-M2a*, which could just pass as an overgrown miniature.

There is another purely technical factor. Not all headphones are electrically suitable for use with personal stereo players, which may not have enough power in hand to drive them to sensible volume levels. There are no rules about this since the sonic character of a headphone can make one model sound louder than another of similar sensitivity, and the power output figures specified on personal stereos are not to be trusted.

I tried each of the test models with an Aiwa cassette personal, which is broadly representative of the genre. Three models, those from Beyerdynamic, Koss and AKG, were judged too insensitive for use in this way. The Pioneer, Sony and Ross models were better, and are capable of generating adequate volume levels for all but the most demanding (and foolhardy) users, though perhaps not with every personal stereo.

The Vivanco and Sennheiser offer slightly greater sensitivity still, and the most sensitive, and therefore the preferred choice for the head-banging fraternity, are the models from Maxell and Audio-Technica.

The comfort factor

A quick trial in your dealer before you buy will tell you little about that other key element of headphone design — long term comfort. Sealed headphones with impermeable ear cushions that sit on the ear rather than around it tend to become uncomfortable very quickly.

In addition, lightweight sealed designs are often microphonic, providing a noisy and coloured environment for the ears which becomes almost subliminally tiring in short order. Open back models generally allow the ears to 'breathe' much more freely.

In all cases, check that ear cushions are removable for washing (unless they have a wipe clean finish), and that replacements are available. Dual headbands, which consist of an outer sprung band, and an inner flexible band to locate on the head without pressure hot spots, are invariably more comfortable than single headbands, however well padded. Finally, loose fitting phones, such as the Sennheiser *HD320* tested can be a liability for the active user.

AKG K70



Will the AKG *K70* live up to the quality of the reference *K400* headphones?

The £40 *K70* from AKG is bottom of the K series which includes the finest non-electrostatic headphone I have encountered, namely the *K400*. The *K70* obviously benefits from some of the development work that made the senior model so special.

Physical design points include the use of a self-adjusting twin headband in which the inner, pliable band locates around the head, adjusting itself against the spring pressure provided by what amount to elastic bands at each end. As usual with twin headbands, the outer part is a spring hoop which determines the inwards pressure on the ear. The design would be near perfect if AKG had adopted a more flexible inner band.

The *K70* is an open back design, weighing 120gm, with a 100 ohm impedance which should make it a better match than many to the relatively high impedance headphone feeds on some less competently designed amplifiers, CD players and cassette decks. The lead, which is attached to both capsules, is 1.8 metres long, and fitted with the standard arrangement of a 3.5mm plug and a 6.3mm slipover adapter.

The *K70* feels tight and snug (inwards pressure on the ears, which is non-adjustable, is moderate) but the ear cushions have a soft, cosseting feel. Their open construction also helps to ventilate the ears and keep them reasonably cool. This kind of material, however, is not the most hygienic on earth, and will need to be removed for washing, which is something that doesn't concern its wipe-clean counterparts.

With the experience of the *K400* fresh in mind — I used them as a reference point for this test — I was extremely disappointed by these headphones. Comfortable they may be, and the bass seems warm and full, but output doesn't extend very deep into the true bass, and the midband lacks in colour and variety. The sound as a whole has no drive or dynamics. Everything appears to be happening on the same plane, and there is little sense that the music is changing in volume level as the *K400* clearly reveals it should.

The real problem, however, is the shut-in, thin and reedy treble which speaks of serious high frequency break-up modes in the drive unit diaphragm. Tonal balances are dull; a clapping audience sounded like dried peas rattling in a small cardboard box.

There were also some interesting inconsistencies brought about by the contradiction between a close, in-head presentation of bass sounds and a wispy, distant midband and treble which made it very difficult to get inside the music — something that I feel is vitally important in any audio system, regardless of cost.

VERDICT

- **Strong on comfort; sumptuous ear cushions; self-adjusting inner headband.**
- **The drive unit lacks the quality to match the plus points already outlined.**

SOUND ★★★★★
VALUE ★★★★★
PRICE £39.95

Harman Audio UK Ltd, Unit 2, B'wood Ind Park, Rowley Lane, Borehamwood, Herts WD6 5PZ.
081-207 5050

AUDIO-TECHNICA ATH-M2A



Cheaper than many, but still the Audio-Technica *ATH-M2a* sounds too compromised.

One of the most striking features of the last few years of headphone design, (discussed more fully in the introduction), has been the surge of interest in compact, sealed headphones. This is something that the Audio-Technica *ATH-M2a* exploits.

It's an extremely compact model, with tiny annular ear cushions that sit on the ear, and a single covered but unpadded headband hoop which exerts only the smallest amount of pressure on the ears. The unusually long 3.5 metre lead splits to both ear pieces, and is equipped with a standard dual plug. Impedance is 22 ohms, which may react poorly with less adequately designed headphone drive circuits, possibly resulting in the loss of extreme treble.

As far as music goes, the *ATH-M2a* is not so much bad as simply inadequate. There's no bass to speak of, and little that justifies being called upper treble. On the other hand, there is plenty of midband from the drive units whose output appears to be on a smooth but steady decline above 1-2kHz.

The music sequences used for this test were uniformly deathly boring to listen to, with acres of undifferentiated sound barely changing in texture or colour from one piece to the next.

It was the almost complete absence of bass that led to the almost compete lack of colour. The less severe lack of real treble meant that subtle matters of inflection and instrumental timbre were subsumed in what was left — namely that rather pushy sounding midband. There were also some microphony problems, associated with the plastic mouldings that envelop the capsules.

I have heard more bass from some true miniature in-ear models, a paradox that arises from the way they interact with the design of the ear canal itself. With some headphones, the lack of low frequency grunt can be attributed to poor sealing around the ears.

But although the design of the seals does indeed appear to be deficient, holding the capsules firmly against the ears failed to produce the expected benefits in the deeper regions, indicating that the bass loss is inherent to the generating system — the drive unit and perhaps the bass loading applied by the outer shell that covers the capsule. In fact, treble definition picked up significantly when the capsules were pressed inwards.

About the best excuses the *ATH-M2a* has to offer is that its cheap, comfortable and well built. It is also true that the *ATH-M2a* lacks some of the overt colorations inherent in a large number of the competition. But the limitations are simply too severe to avoid censure, even at so low a price.

VERDICT

- **Cheap; extremely comfortable; good build quality and adequate (if over exposed) midband.**
- **Threadbare audio performance at both ends of spectrum.**

SOUND ★★★★★
VALUE ★★★★★
PRICE £27.95

Audio-Technica, Technica House, Unit 2, Royal London Trading Estate, Old Lane, Beeson, Leeds LS118AG.
(0532) 771441

Beyer DT 311



Beyer Dynamic's *DT 311*; good on rock, but too thick-sounding for classical music.

Beyer is one of the big three — the triumvirate of top European microphone manufacturers with headphone making arms. The others are Sennheiser and AKG who, along with Sony of Japan, have come to dominate the quality middle price headphone market.

The *DT 311* is an entirely characteristic Beyer. It has an open back design, is light in weight (124gm) and it has a modestly high impedance (40 ohms) which will match well with the headphone drive circuit on virtually any amplifier.

At the same time, the Beyer is one of the least sensitive models I have encountered, and certainly the least sensitive in this test. Most battery driven equipment, and even the odd cassette deck or CD player fitted with a fixed output level headphone socket, may find that this model gives volume levels which are too low to be viable.

Dressed in a fetching modern black and red colour scheme, the *DT 311* has a single hoop headband, strategically padded, which is claimed to be unbreakable, and which exerts somewhat higher inwards pressure on the ears than usual. The capsules are foam-lined, and covered in a cloth that feels cool on the ears. The lead is 1.8 metres in length, and terminated by a 'Y' attachment at one end, and a 6.3/3.5mm dual plug at the other.

Overall, this is a likeable headphone, though it's not a particularly accurate or analytical one. It has a slightly tubby bass and forward midband. It worked quite well with most of the rock music extracts used for this test, but it made something of a meal of the classical pieces. This was thanks to a rather thick and inappropriate rollicking midband which underplayed the elegance and beauty of Mozartian strings (to give a representative example).

The real Achilles' heel of the *DT 311*, however, is the treble, which lacks the openness, clarity and sheer class of something like the Sennheiser *HD430*. The problem was obvious even with speech, which failed to articulate sibilants. 'S' sounds reproduced as 'sch' and a rather heavy-handed variant at that, not the lighter and more feline 'sch... you know who' species.

Stereo soundstaging also suffered, as it does when different parts of the audio frequency band are not treated in a mutually consistent way, the net effect being rather close, even in the head.

Despite these shortcomings, the Beyer is bold and colourful, with strong midrange dynamics. It also sustains protracted use rather better than many, despite the rather high inwards pressure on the ears. This is perhaps because of the combination of open back construction and the artful design of the ear cushions. Not an instant hit, but definitely worth a listen.

VERDICT

- ▲ **Firm, but comfortable; positive, engaging sound.**
- ▼ **Lacks refinement in the treble, and control in the bass; stereo imagery lacks spaciousness and consistency.**

SOUND ★★★★★

VALUE ★★★★★

PRICE £49.95

✉ *Beyer Dynamic (GB) Ltd, Unit 14, Cliffe Industrial Estate, Lewes, West Sussex BN8 6JL.*

☎ *(0273) 479411.*

Koss TD/60



A perfect fit for the Gold head, but does the Koss *TD/60* have a sound to match.

What can I tell you about these phones? The packaging gives very little away, but that is what I was referred to when I asked the Koss distributor for information. About all I can say is that the *TD/60*'s impedance is 27 ohms and weight is 7.3oz (that's about 204 gm in real money).

While a sheet of comprehensive instructions are not a prerequisite for a pair of headphones, the level of information on the packaging is rather poor. One interesting snippet I did glean from the packing, however, is that this latest testament to US high technology is made in South Korea.

The *TD/60* is a very simple headphone. It's a sealed design with non-permeable covered foam ear cushions that sit on the ears, a simple padded steel hoop headband and a two metre lead with a 'Y' piece at one end to connect to both capsules, and a 90 degree 3.5/6.3mm plug at the other. The *TD/60* neither looks nor feels like a quality item, but it's a competent one, and it fits the head like a glove (er, like a glove fits a hand, that is).

Within the rather limited brief that seems to have been set here, the *TD/60* is a success. But there is one sour note; the ear cushions are fixed in place with glue. They can be wiped clean, but cannot be easily replaced if they are damaged, which from their uninspiring construction looks all too probable.

The Koss is closest in overall performance to the Ross and Maxell models described later in this test. All three have the same bandwidth problem for example. The bass is lacking to the extent that changing to a more capable design (such as the Sennheiser *HD320* — see page 69) reveals the presence of previously unsuspected instruments — or, in the case of orchestral recordings, whole orchestral sections, such as the cellos and basses.

These instruments aren't merely well hidden through the Koss, they're not there at all. The Koss draws a veil over everything that happens below, say, 150Hz.

Treble quality, by contrast, is reasonable. It is possible to follow fine detail, though instrumental colours tend to be on the squeaky side of neutral. The Koss has a pervading quacky, almost plasticky midband coloration, and a ringing quality that is excited by certain sounds, but not by others.

Treble quality of the Koss still transcends most of the other sealed headphones in this group (though the Sony *CD450* is an honourable exception here).

The Koss is also a great deal more open and spacious sounding than its most direct competition. But this in itself is not enough, and even at £30, the Koss *TD/60* does not look cheap.

VERDICT

- ▲ **The Koss is on the whole better behaved than most of the direct (non open-back) competition.**
- ▼ **Like listening to AM radio; colorations in the midband and higher frequencies.**

SOUND ★★★★★

VALUE ★★★★★

PRICE £30.00

✉ *HW International, 167-171 Willoughby Lane, Brantwood Industrial Area, London N17 0SB.*

☎ *081-808 2222.*

MAXELL HP-3000



Maxell's *HP-3000* looks attractive but is not comfortable to wear and sounds congested.

My first impressions of these £30 compact sealed headphones was favourable. The *HP-3000* make a colourful display in their packaging, which showcases the gold-plated 3.5mm captive plug and 6.3mm plug on adapter. The good impression is sustained out of the packaging, thanks to the contemporary rounded appearance and sumptuous padding around the headband. The whole effect is pleasing, but is badly let down when they are used for the first time in anger.

Sad to relate, the Maxell are not comfortable headphones. I felt claustrophobic wearing them. The bearing surfaces were poorly shaped and knobbly, and the 'dual axis' freedom of movement promised on the back of the pack was insufficient to allow the phones to sit flat on my ears in the lateral plane. They exerted considerable pressure too, though this would probably not have attracted adverse comment had other comfort related aspects been more favourable.

Maxell gives little away about the technology on offer beneath the sheets, as it were. Beyond the anodyne suggestion that the *HP-3000* are 'digital' stereo headphones, there is little to say. Impedance is given as 32 ohms, and the headphone is wired with 120 inches of thin cable to a standard dual plug. The lead is wired to the left hand earpiece only, and a volume control and mono/stereo switch are fitted to a small in-line remote control.

Musically, the *HP-3000* is uninspiring, though by the standards that prevail in these price latitudes, it is not offensive. The mid and treble are smoother and less overtly coloured than some, but tonally the balance is extremely dull, with little fine detail on offer.

As usual with budget sealed designs, it is the sound of the capsule housing that predominates, and while there is no sharp high-Q resonance to draw the ear, the overall effect is boxy and slurred. Notes tend to run together in a blur, and subtle ambient effects are swamped by the general low frequency noise generated by the capsule housings when energised by the music.

There is little energy at either frequency extreme, the bass being particularly lightweight, though there is plenty of upper bass which might be mistaken for real bass.

One other property, noted repeatedly, was the close, in-head presentation. The sound is very tight and congested, with absolutely no sense of air and space, and it was this, as much as the physical discomfort of the ear cushions, that set the tone for what followed. In short, this model has little to do with high fidelity or entertainment.

VERDICT

In-lead volume and stereo/mono controls; build quality is okay; smooth, basic sound.

Congested; dull; lacks dynamics and resolving power; poor comfort levels.

SOUND ★★★★★

VALUE ★★★★★

PRICE £29.99

Maxell UK Ltd, 3a High Street, Rickmansworth, Hertfordshire WD3 1HR.

(0923) 777171.

PIONEER SE-400D



Solid, comfortable design from Pioneer in the shape of the compact, semi-sealed *SE-400D*.

Pioneer's contribution to this test is one of the new breed of compact, semi-sealed designs. The £37 *SE-400D* has the added spice of two small horn shaped vents behind the cone in an attempt to wring extra bass from the relatively compact design. The cable is three meters long and of oxygen-free Litz construction. It's connected to both earpieces through a 'Y'-section, and terminated in a 3.5mm plug, with a push-on 6.3mm stereo jack adapter.

The Pioneer's physical design draws a lot from the Maxell and the Ross models also covered in this test, and it is not the most comfortable headphone in the group. Straight from the box, it clamps the head rather hard, and I was only able to slacken the headband a little by repeatedly bending it back.

The ear cushion consists of an impermeable oval synthetic cloth over a foam base. It is quite well shaped, and sits on, rather than around, the ears. It felt okay but warmed up quickly. The other negative is the headband, a simply covered circular single hoop.

Finally, the Pioneer is microphonic. Talking with the phones in place was like listening through a stethoscope, and though this might not matter in secluded listening, the same quality shaped all sounds from the headphones.

The Pioneer's saving grace is a decently engineered pair of transducers. Although performance overall is barely enough to qualify as high fidelity (leaving aside what the term means), even this modest level of achievement places the Pioneer light years ahead of more than a few of the rest.

The basic requirements for decent headphone performance are met. The Pioneer is smooth and neutral. The treble offers a fair degree of clarity and presence, with little of the sharpness or obvious resonance problems endemic at this end of the price tree. This generally respectable showing is matched by a bass quality which is open a good half octave more than other ostensibly similar headphones in this test. Maybe those odd looking horn mouldings do work after all.

There are cabinet induced colorations which, in common with other models sharing the same general construction, means some rather heavy midband colorations and overhang. This gives the Pioneer *SE-400D* a rather lumpy, undifferentiated quality, — notwithstanding the behaviour of the treble in isolation — the only caveats being that that these things are not enough to totally swamp the positive features.

This is an enjoyable headphone to use. At the end of a couple of hours solid use, I wasn't itching to pull them off, at least as long as the volume hadn't been set too high.

VERDICT

Adequate comfort levels are offset by a staid but presentable, even likeable, sound quality.

The usual culprits, including some obvious (though not ruinous) midband colorations.

SOUND ★★★★★

VALUE ★★★★★

PRICE £36.95

Pioneer Hi-Fidelity (GB) Ltd, Pioneer House, Holybush Hill, Stoke Poges, Slough SL2 4PQ.

(0753) 789500

Ross RCH-300CD



Ross *RCH-300CD* bears a striking similarity to the Maxell *HP-3000* also in this test.

My first impressions of these £20 compact, sealed headphones was favourable. They make a colourful display in their packaging, which showcases the gold-plated 3.5mm captive plug and 6.3mm plug on adapter . . . Hang on, haven't we been here before?

The answer is yes, with the Maxell *HP-3000*. The Ross and Maxell have almost the same physical design. They seem to come from the same Chinese supplier, with some mild customisation of (probably) off the shelf components.

Read all about it under Maxell *HP-3000*. Just because the structure is largely identical, however, there is no reason to assume that the capsules themselves are the same. They don't sound the same (though there are some similarities), and they are not acoustically loaded in the same way. The Ross uses a semi-sealed loading design, with a single vent in the outer covers that surround the capsules.

The drive unit is also promising. Ross specifies samarium cobalt magnets and Mylar diaphragms, though the 'high velocity' drive units should not be confused with so-called velocity drive, which relies on full open back working.

The Ross is fitted with impermeable on-ear oval cushions. Impedance is low, and weight is a very moderate 155gm, which is actually too low for effective sound isolation. A fair amount of solidity and damping is needed for effective sound insulation, and both properties demand a certain amount of weight. The three metre cable is attached to one capsule only, which is an advantage. An in-lead control is fitted for volume and mono/stereo switching.

As it happens, the external similarity with the Maxell is not matched by the listening results. On the one hand, the Ross has a cleaner, clearer and more detailed sound than the Maxell; on the other, there is a sharpness and strain in the higher frequencies that suggests a sharp treble resonance or break-up mode, which make these headphones extremely tiring to listen to. Speech is reproduced with an aggressive, pushy quality that quickly had me reaching for the volume control.

Music, though easier to follow, was similarly sharp and graceless in character, and the ability to extract detail from the music was much too low to act as any kind of compensation.

And so the story continues. The bass is shallow, but with the same upper bass prominence identified with the Maxell; this part of the audio spectrum is dominated by the structure of the capsule.

My abiding impression however, was one of relief — when the time came to move on to the next model in the test.

VERDICT

- **In-line volume control and stereo/mono switch.**
- **I found these headphones a trial; they are uncomfortable, aggressive and shallow in expression and tonal colour.**

SOUND ★★★★★
VALUE ★★★★★
PRICE £19.99

✉ *Ross Consumer Products Ltd, Emlyn Street, Farnworth, Bolton, Lancs BL4 7EB.*
☎ *(0204) 862026.*

Sennheiser HD320



The Sennheiser *HD320* is as expressive as the Expression Line name suggests.

The *HD320* is a junior member of Sennheiser's new Expression Line. The style is highly distinctive, and several novel and clever features have been introduced, the most important of which is a dual headband design (see AKG) with a novel locking head size adjustment. This is both comfortable and unlikely to lose its adjustment — a common failing with dual headband headphones.

Another important feature is a new oxygen-free copper (OFC) lead which interweaves the conductor with Kevlar to increase strength. Previous generations used a plug on the end of the cable 'Y' lead to mate with matching sockets in each capsule housing.

With the Expression Line range, this feature has been dropped in favour of a single connecting point on one earpiece only, in response (says Sennheiser) to consumer demand. This change coincides with a change to a permanently soldered lead, just like all other brands. Sennheiser probably reasoned that a single plug and socket would be far too vulnerable to everyday accidents, such as treading on the lead when walking about.

Other elements in the *HD320* include Sennheiser's most famous feature: the 'unbreakable' headband which can be contorted to some unlikely shapes without risk of fracture or distortion. The lead is three metres long, and is equipped with the usual twin plug.

The ear cushions are covered in a soft, permeable cloth which is always cool and comfortable, and inwards pressure on the ears is low, which makes them exceptionally easy to wear, especially in extended use. Only rapid side to side head movement can dislodge them. The ear cushions are fully replaceable. Indeed, Sennheiser is the only maker of the 10 to explicitly recommend regular replacement, citing reasons of hygiene.

Sound quality is exceptional, easily the best of the group. Veering on the side of euphony rather than analytical clarity, the *HD320* sounds full and warm, but with less coloration than any model in the group. Compared to any of the other nine models, the level of detail reproduced from all sources is nothing less than prodigious.

Switching from any of the other models to the Sennheiser was to change a flat, dimensionless radio play into a living, breathing space. It added depth as well as width, in which the actors interacted in a believable way, the acoustic of the space around them being properly defined. With music too, similar qualities were apparent.

Instruments were more clearly and distinctively formed, and the Sennheiser *HD320* was the only model tested capable of doing justice to the expressiveness and dynamics of fine playing.

VERDICT

- **The best of the group; clear, concise, overhang-free sound.**
- **A drier balance might have been preferable; not suitable for the highly mobile.**

SOUND ★★★★★
VALUE ★★★★★
PRICE £39.95

✉ *Sennheiser UK Ltd, 12 Davies Way, Knaves Beech Business Centre, Loudwater, High Wycombe, Bucks HP10 9QY.*
☎ *(0628) 850811.*

Sony MDR-CD450



If you need to be isolated, it maybe worth shelling out for Sony's conch-like *CD450*.

Yet another sealed headphone, the *CD450* is a more serious looking design than most. The capsules are large in size, with an 'ear conscious' inclined oval ear cushion that sits around, rather than on, the ears for good acoustic sealing. Weight is higher than the group average at 250gm, but clever detail design, and the wide 'footprint' of the ear cushions, makes this a comfortable headphone, even in protracted use.

The drive unit is built around high energy neodymium rare earth magnets, and appears to be quite high-tech in design, though Sony's descriptive matter is notably short on specifics, contenting itself with such observations as 'allows expression of a delicate and beautiful sound.' Well, that's okay then. The OFC cable is three meters long, with a 'Y' connection to both capsules, and a dual plug at the far end. For once, the 6.3mm adapter screws onto the 3.5mm plug soldered to the lead, which should make a more reliable long-term connection, though I'm not sure that it is 'resistant to a secular change' as Sony claims.

In stark contrast to most of the other sealed headphones in our group, the *CD450* actually offers some useful attenuation of sound from the outside world. Its large size, and the circumaural earpads, clearly stand it in good stead here. Even so, the reduction in sound from the outside world is only a matter of a few decibels — easily noticeable, but far from dramatic.

I liked the sound of this model, which displayed an airy quality, a scale and spaciousness quite out of the ordinary for the group as a whole, or for a sealed headphone in particular. Like any good headphone, the Sony has a reasonably even spread of abilities. Tonally, the *CD450* is close to neutral, though there was some masking of very high frequencies which reduced vocal clarity to a certain extent. The midband was clean, open and colourful, and the bass was fairly well extended, tuneful and, well, just plain competently executed.

The only problem identified on test was a degree of low level coloration associated with the ceramic composite housings. This coloration is related to the microphonic construction of the conch-like housing — listen to the handling noise when you run a finger across the capsule casing while they're on your head. This problem is far from uncommon with sealed phones, but at least it doesn't overwhelm the sound, as it often does elsewhere.

Taking everything together, this is a strong performer, which will be of particular interest to those who need a degree of isolation from outside sources of interference at a reasonable price.

VERDICT

- ▲ **Solid, neutral sound quality; fair isolation from the outside world.**
- ▼ **Loss of treble clarity, which affects music and speech subtleties; low-level structure-related colorations.**

SOUND ★★★½★

VALUE ★★★★½

PRICE £44.99

✉ *Sony Consumer Products Ltd, Sony House, South Street, Staines, Middx, TW184PF.*

☎ *(0784) 467000.*

Vivanco SR606



The big, bold semi-open Vivanco *SR606* is costly, but it lives up to its price-tag.

Here is an exception to the current trends at this price level. The £40 *SR606* is an unfashionably generous semi-open back design, with wide diameter ear cushions which fit comfortably around the ears. This is a factor which improves long-term comfort immeasurably, even though the various bits of padding are harder than I would have preferred.

Notwithstanding the open-back design, the substantial build and large physical appearance has the unexpected side effect of ensuring that the ability to block sounds from the outside world is comparable to most of the sealed models in this test. This is as much an indictment of the unsatisfactory isolation afforded by some of the latter as it is a positive statement about the Vivanco. These comments do not include the Sony, which, in this respect at least, is made from sterner stuff.

The cable is rather thick and inflexible, though it is more or less non-microphonic. A short 'Y' section couples it to both earpieces, and at the other end is a standard dual plug arrangement.

Although the Vivanco *SR606* is not the crispest or the most detailed sounding headphone in existence, the model is a genuinely civilised design. It sounds open and clean, with a warmth and graciousness denied most of its competitors. On the showing of this test at any rate, it's also bolder and more colourful than most.

It is instructive to compare this model to the only one in this test capable of playing in the same ballpark — the Sennheiser *HD320*. The Vivanco is the stronger meat. It has a richer, more varied sense of tonal colour and a fuller bass, in some way like a pair of *HD320* played through an amplifier whose loudness control has been turned on. Where the Vivanco looses out is in the general area of refinement. The *SR606* is just perceptibly thicker in texture and less subtle.

The Vivanco is also a tad boxy, and there is a certain loss of separation, and of the independence of related but separate sounds. Orchestral strings for example have a homogenised, rather samey quality. But this model remains a fine all-rounder. Its easy, outgoing and undemanding sound quality makes the *SR606* easy to listen to, if not through.

This model remains one of the good guys, a model that will suit a wide variety of users. Its positive, outgoing character makes it easy on the ear, and a more attractive initial proposition than some technically more neutral designs. The physical design makes it possible to listen for long periods without too much danger of listening fatigue. And if the Vivanco *SR606* isn't quite the most refined headphone in its class, it isn't too far short.

VERDICT

- ▲ **Unusually comfortable; bold, colourful and dynamic music; articulate speech.**
- ▼ **Lacks a little refinement and spaciousness by the best standards.**

SOUND ★★★½★

VALUE ★★★★½

PRICE £39.99

✉ *Vivanco UK Ltd, Unit C, Boundary Way, Hemel Hempstead, Herts HP2 7SS.*

☎ *(0442) 231616.*

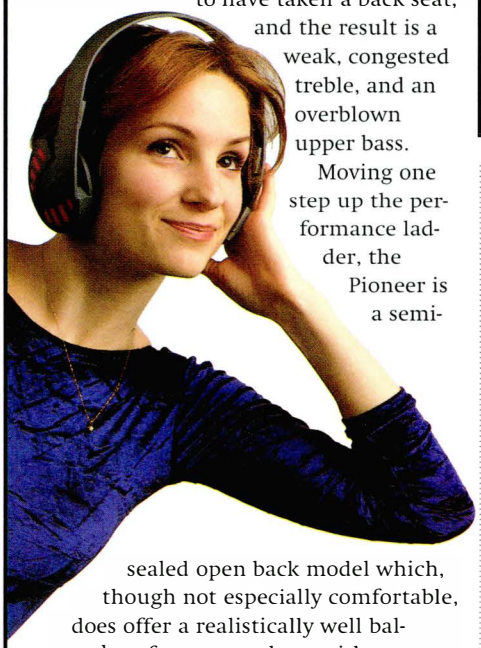
HEADPHONES

Conclusions, best buys and recommendations

Before looking at the individual models, I have a couple of more general observations to get off my chest. The first is that there is a greater variation in the performance of these headphones than in any other group of hi-fi products I can name, even products as notoriously variable as loudspeakers.

The second concerns the sheer incompetence of a large proportion of the group. The most charitable explanation is that not all the designers involved used the same design goalposts. Several of the models tested were so bad that it seems scarcely credible that they were ever properly auditioned by informed, musical ears. The fact that exceptions exist, however, demonstrates that something approaching true excellence is possible for less than £50.

Least satisfactory of all those tested were the Ross *RCH-300CD* and the Maxell *HP-3000*, both of which can best be described as crude and A-musical. The Maxell has the edge, but at two-thirds the price, the Ross offers better value for money. The Koss *TD/60* was somewhat better, though again very limited in its capabilities, especially towards the frequency extremes. The Audio Technica *ATH-M2a* is thin and utterly devoid of bass, though it is comfortable and it does have an acceptable midband. The AKG *K70*, the first of the open back models, is well built, but the performance of the drive unit appears to have taken a back seat, and the result is a weak, congested treble, and an overblown upper bass.



Moving one step up the performance ladder, the Pioneer is a semi-sealed open back model which, though not especially comfortable, does offer a realistically well balanced performance, along with a number of, mainly low-level, colorations — Recommended.

On to the Sony and own up time. This is the second time I have crossed the *MDR-CD450*'s path, and although the basic observations (its lack of clarity, and the colorations attributable to the microphonic capsule construction) were confirmed, I find myself better disposed towards it this time. The reason of course is the general standard (or lack of standards) of the group as a whole, especially the sealed models. If you really want a sealed headphone, then at least as far as this test group is concerned, the Sony is still the best, and arguably the only game in town. A cautious Recommendation is in order.

The open Beyer *DT311* offers a slightly shambolic set of virtues and vices. It is well built and mainly comfortable, if a bit firm, but the bass is boomy, and the treble lacks vitality and resolution, which is slightly disappointing given the track record of this usually excellent source. In many ways, the Vivanco offers comparable qualities to the Beyer but without the shortcomings, and this model therefore gains a Recommendation. There is no doubt about the winner though. The Sennheiser *HD320* is so far ahead of the field as to leave its Best Buy status beyond question. The only real problem is that it is a rather loose fit, and users who move around while listening may notice a tendency for them to slip off the head.

Best Buy and Recommended models



Another classic from Sennheiser, the *HD440II* is an alternative design to try in this price range.

Best of the Rest

The £20-£50 price band is home to a variety of similar models under different product names. As there is relatively little continuity from all but the largest handful of suppliers, it is hard to be definitive about which models to include in a shortlist. A few names do spring to mind, however, along with a couple which cost just over £50 which should be considered by anyone interested in spending towards the top of the band. One example of the latter is the Vivanco *SR808 Classic*, which is an excellent open back model that costs £55. Another is the Beyer *DT411*, which at £59 is generally more successful than the *DT311* covered in this test.

Within the price band tested, the obvious stand out model is another Sennheiser, the £35 *HD440 II*, a classic model which has been and updated is light open and airy, if slightly 'cold' tonally. There is also an excellent closed back model called the *MDR-CD350* from Sony, a snip at £30, and almost certainly the cheapest satisfactory sealed headphone you can buy. At the bargain basement end of the price band, look out for the Kenwood *KH-1000*, a kind of outsize miniature that will set you back just £20, which places it in direct competition with the Ross *RCH-300CD*. As an alternative, Aiwa produces a model called the *HP-X30* which costs a little more, £26, and which does a broadly similar job, albeit with a rather heavier, bassier balance.

Best Buy

The £39.95 Sennheiser *HD320* stood out as the best of the group. Extremely expressive and clear headphones — but don't dance around too much as they may fall off.



The outstanding Sennheiser *HD320* on the left and the very appealing Vivanco *SR606*, right.

Recommended

Pioneer's £36.95 *SE-400D* is part of the current trend for compact, semi-sealed models. Sounds great and is comfortable to wear.

The reasonably priced *MDR-CD450*, at £44.99, is a sealed design from Sony that ensures a fair degreee of isolation together with a solid neutral sound.

Vivanco's *SR606*, £39.99, should prove to be a popular buy. It's attractive, comfortable and very easy on the ears.

Dealer Guide

Classified

AVON

V'AUDIO
36 Druid Hill
Stoke Bishop
Bristol BS9 1EJ
Tel: 0272 686005

ATC, AVI, Acoustic Energy, Alon, Audio Innovations, Audiomeca, Audio Technica, AMC, Analogue Electronics, Cadence Valve, Chord AMPS, Electronic Companiet, Exposure, Goldring, Harmon Kardon, Heybrook, Jamo, LFD, Lyra, Ortofon, Perception, Pink Triangle, Ruark, Michell, REL, Sansui, SME (inc. 20A), Sonic Link, Stax, Sugden, Sumiko, Townsend, Triangle, Wadia.

Demos by appointment only. Home trial facilities. Free installations. Servicing facilities. We are not a shop.

BERKSHIRE

B&B Hi-Fi
Berkshire's Leading Specialist

Aiwa, Akai, Alphason, Aura, Bang & Olufsen, Beyer, Bose, B+W, Canon, Castle, Celestion, Denon, Dual, Dynaudio, Heco, Heybrook, Infidelity, Jamo, JPW, JVC, Kef, Kenwood, Marantz, Mission, Mitsubishi, Monitor Audio, Mordaunt/Short, NAD, Nakamichi, Panasonic, Path, Philips, Pioneer, Project, QED, Quad, Rogers, Rotel, Sennheiser, Sony, Tannoy, Target, Technics, TDK, Thorens, Wessex, Wharfedale, Yamaha.

Ask about FREE delivery & FREE installation

11-12 Market Place, **Reading***	Tel: 0734 583730
18 King Street, **Maidenhead***	Tel: 0628 73420
Princess Square, **Bracknell***	Tel: 0344 424556
4 Priory Road, **High Wycombe**	Tel: 0494 535910
62 North Brook Street, **Newbury**	Tel: 0635 32474
12a Park Square, **Luton***	Tel: 0582 459915

***DEMONSTRATION ROOMS**

C.F. LAKE
FOR BETTER HI-FI
IN THE THAMES VALLEY
Agents for:
TECHNICS, KENWOOD, ROTEL, NAKAMICHI, B&W, MORDAUNT SHORT, SONY, PANASONIC, MITSUBISHI, PHILIPS, AIWA, J.V.C., WHARFEDALE, INFINITY
FREE DELIVERY • DEM ROOMS AT*

252/254 High Street, Slough SL1 1BN	(0753) 538288*
117/119 Oxford Road, High Wycombe HP11 2DN	(0494) 528605*
9 Market Street, Aylesbury HP20 2PN	(0296) 25119*
11 West Street, Marlow, Bucks SL7 2LF	(0628) 483555
83 High Street, Maidenhead, Berks SL6 1JX	(0628) 778611
20 Chequer Street, St. Albans, Herts AL1 3YD	(0727) 834046*
H.C. WHEATLANDS	
85-89 Chiswick High Road, London W4 2EF	(081) 994 2464

BUCKINGHAMSHIRE

THE SOUND GALLERY
BUCKINGHAMSHIRE'S PREMIER HI-FI DEALER
Arcam, Denon, Linn Products, Naim Audio, Meridian, Rotel, Yamaha, NAD, Quad, Tripod, Nakamichi, Rega, Creek, Epos, Mordaunt Short, Celestion, Marantz, Mission, Cyrus, etc . . .
65 Castle Street, High Wycombe, Buckinghamshire.
Open Monday – Saturday
0494 531682 / 464670

BIRMINGHAM

Norman H. Field *Hi-Fi*
Consultants for Home High Fidelity
- B & W
- Denon
- Castle
- Dual
- Mordaunt-Short
- Technics
- Thorens
- Tannoy
- Yamaha
- Kenwood

NAD

Two-year guarantee
Private Listening Rooms

HURST STREET
BIRMINGHAM B5 4BJ
Telephone: 021-622 2323

BIRMINGHAM

ELECTRO CENTRE
244 SOHO ROAD, HANDSWORTH, BIRMINGHAM
TEL 021 554 1878 & 523 2426
FULL RANGE OF HI-FI
PIONEER, TECHNICS, AKAI, KENWOOD, JVC, SONY, AIWA,
Guarenteed the lowest price in the UK.
24 Hour Mail Order Facility Available

To find out how you can reach 100,000 discernable hifi buyers
ring Jennifer Phillips
(071) 917 7643

MUSIC MATTERS HI-FI HI-FI
THE AUDIO SPECIALISTS
for the most exciting range of equipment available in the Midlands which includes:
Aiwa, Alphason, Apollo, Arcam, Audiolab, Audioquest, Audio-Technica, B&W, Bever, Canon, Celestion, Chord, Cyrus, Deltec, Denon, Dual, Epos, Exposure, Harman Kardon, Heybrook, Infinity, KEF, Luxman, Marantz, Meridian, Michaelson Audio, Michell, Micromega, Mission, Monitor Audio, Monster, Mordaunt Short, Musical Fidelity, Nakamichi, Panasonic, Pink Triangle, Pro-Ac, Revolver, Revox, Rogers, Roksan, Rotel, Royd, Ruark, Sansui, Sehnheiser, Shure, SME, Stritwire, Systemdek, Target, Technics, Thorens, Wharfedale, Yamaha, etc.
Wide range of classical CDs in stock *Full servicing facilities available*

INTEREST FREE
(for Limited Period) APR 0%. Written details on request. Licensed Credit Broker.
VISA • ACCESS • SWITCH

351 HAGLEY ROAD, EDGBASTON, BIRMINGHAM B17 8DL.
TEL: 021-429 2811 FAX: 021-434 3298
156-157 LOWER HIGH STREET, STOURBRIDGE, WEST MIDLANDS TEL: 0384-444184
93-95 HOBS MOAT ROAD, SOLIHULL, WEST MIDLANDS B92 HJL TEL: 021-7420254

OPENING TIMES
Tues-Thurs 10.30-6.00
Friday 10.30-8.00 Saturday 10.30-5.00
Demonstrations by Appointment

CAMBRIDGESHIRE

University Audio
MAIN AGENTS FOR:
LINN • ATC • MERIDIAN • QUAD • ROTEL • DENON • B&O • etc
3 DEMO ROOMS
TELEPHONE: 0223 354237
FACSIMILE: 0223 322079
BADA THE ULTIMATE IN SOUND ADVICE

ESSEX

Chew & Osborne
Akai • Alphason • Arcam* • B&W • Bang & Olufsen • Bose • Celestion • Dual • Harman Kardon • Kenwood • Quad* • Marantz • Mordaunt-Short • NAD • Nakamichi* • Pioneer • Ruark • Sony • Wharfedale • Yamaha •
** Epping and Saffron Walden only*
148 HIGH STREET • EPPING • TEL: (0992) 574242
26 KING STREET • SAFFRON WALDEN • ESSEX • TEL: (0799) 523728
70 SOUTH STREET BISHOP'S STORTFORD • HERTS • TEL: (0279) 656401

CHESHIRE

ASTON AUDIO HI-FI SPECIALISTS
ARCAM • MERIDIAN • MISSION • CYRUS • AUDIOCAB • B & W • NAKAMICHI • AURA • DENON • QUAD • YAMAHA • KEF • MARANTZ •
ROKSAN • NAD • MF • AIWA • DUAL • CELESTION • ROGERS • AUDIOQUEST • TECHNICS •
WEST STREET • ALDERLEY EDGE • CHESHIRE • TEL 0625 582704 • PLUS HOME CINEMA • INTEREST FREE CREDIT • DISCOUNT CD & TAPE • BADA

HAMPSHIRE

MARTIN LOGAN • ALCHEMIST • AUDIO RESEARCH • AUDIO INNOVATIONS
AUDIO GALLERY
NR PETERSFIELD **HAMPSHIRE**
MISSION, MUSICAL FIDELITY KLIPSCH, DECAPO, AEGIS SPEAKERS LYRA CARTRIDGES, DPA200S HEYBROOK
FOR OPENING HOURS AND APPOINTMENTS PLEASE RING 9.30am – 7pm
HOME DEM
AUDIO SYNTHESIS ACOUSTIC ENERGY
WADIA 6, MICROMEGA STAGE, DAC-IN-A-BOX, TDL, SME, TEAC, VRDS 10. AUDIONOTE + AV
0730 - 895194
VALVE SPECIALISTS ON A SUPERIOR LEVEL
AUDIO ALCHEMY • TEAC • NAD • TRIPOD • ALPHASON • PIONEER • DENON
RESTEK • PROAC • JPW • MOTH • PINK TRIANGLE • WADIA DPA • TUBE TECHNOLOGY

EDINBURGH

RUSS ANDREWS HI- FI
34 Northumberland Street, Edinburgh.
Telephone: 031 557 1672
Linn, Naim, Rega, Arcam, Rotel, Marantz, Nakamichi, Quad, Creek, Yamaha.
Demonstrations.
Open 10.5.30. Mon-Fri, 10-5pm Sat.

HEREFORDSHIRE

ENGLISH *audio*
CYRUS CENTRE
PINK TRIANGLE • AUDION • SYSTEMDEK • HEYBROOK MICHI • KEF • REFERENCE • MICROMEGA • NAKAMICHI CHORD • ARCAM • MUSICAL FIDELITY • ROGERS • NAD ROTEL • DENON • TANNOY • MARANTZ • EXPOSURE • MISSION • STAX • DUAL • TDL • ALBARRY • JPW • CELESTION • IXOS SME • RUARK • MOTH • AUDIO TECHNICA • AND OTHERS
MONDAY - SATURDAY 10-6
95 WHITECROSS ROAD, HEREFORD, HR4 0DG. TELEPHONE 0432 355081
BADA THE ULTIMATE IN SOUND ADVICE

Dealer Guide

HEREFORDSHIRE

Hi-Fi City

Aiwa, Arcam, Aura, Bose, B&W, Canon, Cerwin Vega, Denon, Jamo, JPW, Kenwood, Marantz, Mission, NAD, Philips, Pioneer, Rogers, Rotel, Sennheiser, Tannoy, Target, Technics, Thorens, Wharfedale.

0% CREDIT AVAILABLE • FREE LOCAL DELIVERY
12 YEARS SOUND ADVICE *LASERDISC*

FRIENDLY PROFESSIONAL ADVICE
WATFORD (0923) 226 169
15 CHARTER PLACE, HIGH STREET, WATFORD

HIGHLANDS

THE Music Station

• MISSION • DENON • ROTEL • PIONEER • SONY • KEF • TEAC • • WHARFEDALE • CELESTION • JAMO • MUSICAL FIDELITY • MARANTZ •

LISTENING FACILITIES AVAILABLE

FOR ALL THE BEST IN HI-FI
Contact:
THE MUSIC STATION
49 Church Street, Inverness. Tel: (0463) 225523

HUMBERSIDE

Lend us your ears and we'll blow your mind . . .

Audio Innovations, B & W, Celestion, Cyrus, Denon, Kenwood, Kef, Marantz, Michell, Mission, Meridian, Mordaunt-Short, NAD, Nakamichi, Philips, Pioneer, Panasonic, Quad, Rotel, Sony, Tannoy, Technics, Wadia and more.

Audition the very best at South Humberside's premier Hi-Fi dealer . . .

MANDERS HI-FI LTD.
AUDIO • TV • VIDEO & SATELLITE SALES

2-4 EDWARD STREET (Off Pasture St.)
GRIMSBY. TEL: (0472) 351391

IRELAND

We Never Compromise On Quality

Meridian Arcam Classe Philips Rogers Epos B&W Naim Audio
CLONEY Audio

55 Main St Blackrock Co Dublin Tel 2889449/2888477
Fax 2834887 - Open Tue/Sat 10am-6pm. Thur/Fri 'till 9pm
Closed Monday

KENT

ELECTRICAL DISCOUNT CENTRE
SALES & SERVICE

jamo
PIONEER
marantz
Technics
JVC AKAI
plus many more . . .

BRANCHES AT

The Broadway, Bexelyheath, Kent.
Tel: (081) 298 7880.
Fax: (0474) 535 937

138 Pelham Rd, Gravesend, Kent
Tel: (0474) 326600
(0474) 569601

KENT

KIMBERLEY HI FI
A Sound Investment

SEPERATE DEMONSTRATION ROOM
BRANDS STOCKED: DENON TECHNICS KENWOOD AIWA NAD DUAL WHAFEDALE MISSION MARANTZ SPKS TANNOY CASTLE MONITOR AUDIO HECO JAMO CERWIN VEGA CELESTION ROTEL
SOUTH LONDON'S AND NORTH KENT ONLY
LARGE RANGE OF ICE INC PIONEER, PANASONIC & JVC. KENWOOD. ETC
193 BROADWAY, BEXLEYHEATH, KENT
Telephone: 081 304 3272

LINCOLNSHIRE

Cottage Audio
17 BRIDGE STREET, SAXILBY, NR LINCOLN LN1 2PZ
TEL: (0522) 702834

AGENTS FOR: ATC, AVI, CHORD AMPS, HARBETH, KINSHAW, LFD, MICHELL, ORIGIN LIVE, ORTOFON, PROJECT, QED, ROYD, SANSUI, SEQUENCE, SONICLINK, THORENS, ETC

DEMONSTRATIONS BY APPOINTMENT
HOME TRIALS FACILITIES • INTEREST FREE CREDIT

LANCASHIRE

MS MONITOR SOUND *HI-FI SPECIALIST*

■ TECHNICS ■ SONY ■ PIONEER ■ PANASONIC ■ KENWOOD ■ DUAL ■ AIWA ■ CASTLE ■ QUAD ■ B&W ■ MARANTZ ■ SPENDOR ■ THORENS ■ ARCAM ■ ROTEL ■ WHARFEDALE ■ DENON ■ YAMAHA ■ TANNOY ■ PHILIPS CD ■ CELESTION ■ ROGERS ■ MORDAUNT SHORT ■ MONITOR AUDIO ■ JPW ■ TDL ■ AND MANY MORE

• BIG DISCOUNT • TWO YEAR GUARANTEE ON HI-FI • • FREE HOME INSTALLATION • EXCELLENT COMPARATOR DEMONSTRATIONS • PRIVATE LISTENING ROOM •

CHORLEY (0257) 271935
54 CHAPEL STREET, CHORLEY

LONDON

AUDIO CONCEPT

27 BOND STREET, EALING W5 ☎ 081 567 8703

ACOUSTIC ENERGY, AMC, AUDIO INNOVATIONS, AUDIOLAB, AURA, B&O, B&W, CANON, CASTLE, DENON, DUAL, EVOLUTION, JPW, KEF, MARANTZ, MICROMEGA, MISSION, MONITOR AUDIO, MUSICAL FIDELITY, NAD, NAKAMICHI, ONIX, QUAD, REL, ROGERS, ROTEL, SYSTEMDEK, TARGET, TEAC, THORENS, VAN DEN HUL

Two demonstration rooms. Free local delivery & installation. Repairs & Service. Closed Wednesday

WELCOME TO LONDON'S MOST EXCITING SPECIALIST Hi-Fi STORE

5000' of basement showrooms with 8 Listening Rooms

Open until 7pm every weekday

HiFi EXPERIENCE

Worldwide Personal Exports

A BADA Bonded Store

Audiophile Recommended Dealer

227 TOTTENHAM COURT RD., LONDON W1P 0HX
Tel. Help Line 071 580 3535 - 24 Hour Fax 071 436 4733

LEICESTERSHIRE

SOUND ADVICE
THE MIDLANDS LEADING BRITISH EQUIPMENT SPECIALISTS, FOR OVER A DECADE

NAIM • LINN • MICROMEGA • MISSION CYRUS • ROYD AUDIO • REVOX • SENNHEISER • ROTEL • YAMAHA • NAKAMICHI • EPOS • CREEK • REGA • JPW • ARCAM • MERIDION • MORDAUNT-SHORT

EXCLUSIVE REGA AGENT:
LEICESTERSHIRE & NOTTINGHAMSHIRE
TEL LOUGHBOROUGH : 0509 218254

MANCHESTER

HI-FI YOU CAN'T AFFORD not to listen to

EQUIPMENT BY ABSOLUTE SOUNDS, AUDIO INNOVATIONS, SUGDEN, IMPULSE, MICHEL, ROKSAN, PINK TRIANGLE, ACCUPHASE, THIEL, COUNTERPOINT, SONIC FRONTIERS, TRICHORD RESEARCH ETC.
By appointment only

SERIOUS KIT
061-707 4823

Central Radio
MANCHESTER LTD. Est 1946

30-32 SHUDEHILL MANCHESTER
M41EZ OPEN 9.00-5.30 MON-SAT

STOCKISTS OF: AIWA, BEYER, BOSE, B&W, CERWIN-VEGA!, CANON, J.B.L., KENWOOD, MARANTZ, MISSION, PANASONIC, PIONEER, SENNHEISER, SONY, TECHNICS, THORENS, WHARFEDALE, ETC. *Call us if it's not listed above.*

EASY PARKING CALL FOR DIRECTIONS
CALL US NOW WE'LL BE PLEASED TO HELP
061 834 6700

NORFOLK



The Old School
School Road
Bracon Ash
Norfolk
Tel: (0508) 570829

Basically Sound of Norfolk
STOCKISTS OF LEADING HI-FI

Acoustic Energy, Arcam, Audiolab, Creek, Denon, Epos, Heybrook, Rotel, Naim, Nakamichi, TDL, and others.

NORTH

THE AUDIO SHOP
HI FI SPECIALISTS

Appointed stockists of:-
Ariston, Creek, Denon, Dual, Goodmans, JPW, Mordaunt-Short, Rotel, Royd, Tannoy.

Six Hill Street Raunds, Northamptonshire
Tel: 0933 622325

Classified

Dealer Guide

Classified

WEST MIDLANDS

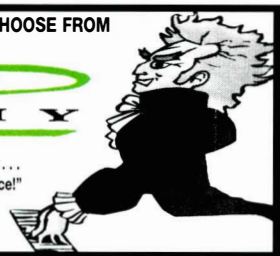
AUDIO EQUIPMENT FROM LEADING AND SPECIALIST BRANDS ON TWO FLOORS FOR YOU TO LISTEN AND CHOOSE FROM

- 3 Demonstration Rooms
- Home Trials
- Home Cinema – Instore Demonstration Theatre
- Audio Visual Equipment
- Evening Demonstrations by appointment
- Inhouse Service Department
- Mail Order Available
- Interest Free Credit on Selected Items (Apr. 0% – Written details on request)

Sound ACADEMY

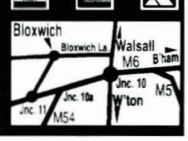
Real Hi-Fi · CINEMA DSP · "Quality, Clarity, Expertise . . . and that's just the service!"

Hi-Fi for the Beginner, the Enthusiast and the Audiophile Telephone (0922) 493499/473499



Sharing the ASDA Carpark with ample free parking. Off High Street, Bloxwich, Nr. Walsall, West Midlands Near M6 Jnc. 10 & 11

Open 6 Days, 9am – 6pm Late night Friday



ACOUSTIC ENERGY • ARCAM • ALEMA • AUDIO LAB • APOLLO • A.T. • AUDIO ALCHEMY • AUDIO QUEST • B&W • BOSE • BEYER • CABLE TALK • CHORD COMPANY • CHORD • CYRUS • CELESTION • DPA • EPOS • EXPOSURE • INFINITY JPW • KEF REFERENCE • KENWOOD • MARANTZ • MICHELL • MONITOR AUDIO • MONSTER • MORDAUNT SHORT • MERIDIAN • MICROMEGA • MISSION • MOTH • MUSICAL FIDELITY • NAKAMICHI • ORTOFON • PROJECT • QUAD ROKSAN • ROGERS • ROTEL • SENNHEISER • SONY • SPENDOR • SUMIKO • SYSTEMDEK • TARGET • TDL • THORENS • TRIANGLE • TUBE TECHNOLOGY • VAN DEN HUL • VANDERSTEEN • YAMAHA • YBA

OXFORD

overture

arcam	meridian
bose	mission
denon	naim audio
epos	nakamichi
heybrook	quad
linn products	yamaha



3 Church Lane, Banbury (0295) 272158

SURREY

Grandix Sound & Vision

71 HIGH STREET, NEW MALDEN, SURREY
TELEPHONE: (081) 336 0012

AVI, ATC, Audio Innovations, Tube Technology, Exposure, Micromega, Ruark, Rogers, REL, McIntosh, Harman, Marantz, Project, TDL, Nakamichi, Kenwood, Aiwa, JBL, Cabletalk, Wharfdale, Sansui, and many more

TWO DEMO ROOMS, FREE PARKING, HOME DEMOS

WEST SUSSEX

PHASE 3 HIFI

THE SOUTH'S LEADING HI-FI SPECIALISTS

Listening Rooms • Dedicated 'Home Cinema' Demonstration Room

ADCOM • ARCAM • B&W • CASTLE • CELESTION • DENON HEYBROOK • KEF • REFERENCE • KENWOOD • LEXICON • MARANTZ MERIDIAN • MONITOR AUDIO • NAD • SHEARNE • SPENDOR • TANNOY THORENS • YAMAHA • including all 'Home Cinema' products

215 TARRING ROAD, WORTHING, WEST SUSSEX BN11 4HW
TELEPHONE: (0903) 245577

STRATFORD

STRATFORD HI FI

You can come and visit us at:
25 HENLEY STREET, STRATFORD CV37 6QW
Contact Dirk or Jamie on:
Tel/Fax No. (0789) 414533

We are stockists of the leading HiFi brands including:

ARCAM, SONY, PANASONIC, NAKAMICHI, B&W, PIONEER, TECHNICS, DENON, NAD, MARANTZ, ROTEL, MUSICAL FIDELITY, MONITOR AUDIO, MISSION, TANNOY, ONKYO, KEF, QUAD, TDL & SENNHEISER, YAMAHA, CELESTION, ACOUSTIC RESEARCH, AUDIOQUEST, MONSTER, TARGET, BEYER, SYSTEMDEK

0% Finance is available on selected products and all major credit cards accepted.

We also have a Demonstration Room and Service Facilities.

Monday to Saturday 9.30 - 5.30.
Late night Wednesday

"Where friendly service stills counts!"

SUFFOLK

ortofon pierre lurné pro-ject projekt qed royd link sound organisation soundstyle townshend trichord van den hul audion audio note kar lyra michell qed

Signals hifi for grown-ups

martlesham heath ipswich (0473) 622866

apollo audio innovations helius heybrook impulse ixos ortofon pierre lurné pro-ject projekt sugden sumiko

SCOTLAND

RIVERSIDE AUDIO

ART AUDIO, CONCORDANT • VALVE AMPLIFICATION ATACAMA AUDIO SUPPORTS • J.P.W. SPEAKERS SYSTEMS

THE MYSTIC OF VALVE AMPLIFICATION DEMONSTRATED IN THE COMFORT OF YOUR OWN HOME

SOUTH-WEST SCOTLAND TEL: 0475 631066
ARGYLL AND BUTE TEL: 0700 504845

YORKSHIRE

LINN NAIM REGA ARCAM QUAD DENON YAMAHA AUDIOLAB CASTLE HEYBROOK NAKAMICHI MARANTZ KEF TARGET ACOUSTIC ENERGY



send for our newsletter & privilege club details

SOUND WITH STYLE
THE HI-FI EXPERTS
284 Glossop Road **Sheffield** S10 2HS
tel **0742 737893**
81 Nether Hall Road **Doncaster** DN1 2QA
tel **0302 321421**

SURREY

Front End Problems?
contact:
The Cartridge Man
It doesn't have to cost an arm and a leg to get the best – listen to my Koetsu – and – Decca – eater.
Also agents for Croft, Sugden, Thorens, Pentachord Speakers & Nottingham Analogue – *plus cartridge re-tipping service*
(081) 688 6565

SUSSEX

WORTHING AUDIO

20 Teville Gate, W. Sussex. BN11 1UA Tel: (0903) 212133

The friendly shop with the best sound systems in the South.
Friendly advice • 3 yr guarantees • easy parking
Open Mon-Sat 10am-6pm Late night Wed 7:30pm

Agencies include: Arcam, Exposure, JPW, Naim Audio, Marantz, Orelle, Origin Live, Ruark, Audio Technica, Target, TDL, Tripod, Kinshaw Electronics and many more.

SURREY HIFI
SPECIALIST HI-FI OUTLET
DEMONSTRATION ROOM – PARKING

MUSICAL FIDELITY • QUAD • AUDIOLAB • REL • TUBE TECHNOLOGY TDL • TANNOY • KEF • DENON • NAKAMICHI • THORENS • TARGET MARANTZ • MICHELL • SENNHEISER • BEYER HEADPHONES JPW • SOUND ORGANISATION • SOUNDSTYLE TRIPODS VAN DEN HUL CABLES • BOSE

HOME CINEMA NOW ON DEMONSTRATION

Just 2 minutes off Junct. 6 M25 (A25)

GODSTONE (0883) 744755
45 HIGH STREET, GODSTONE, SURREY RH9 8LS

HI-FI CHOICE
The World's
No.1
Buying Guide

Moorgate Acoustics Hi-Fi



Frustrated and confused?
Call in and get some help and advice from a company that cares enough abouts its customers to put them first.
184 Fitzwilliam St., Sheffield. Tel: (0742) 756048
8 Westgate Chambers, Rotherham. Tel: (0709) 370666

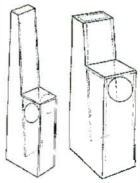
Dealer Guide

TRADE SALES & SERVICES

KIT LOUDSPEAKERS

BANDOR LOUDSPEAKER

Have you heard the REVOLUTIONARY fast & detailed Aluminium Anodised drivers by Bandor?



Transmission Line Kits exploits the unique performances of BANDOR 150mm (8") & 50mm (2") drivers. Brochures available

11 PENFOLD COTTAGE, PENFOLD LANE, HOLMER GREEN, BUCKS HP15 6XR. TEL: (0494) 714 058

Wilmslow Audio

Drive units and Kit loudspeakers

ATC, Celestion, Coles, Dynaudio, KEF, Motorola, Morel, RCL, Peerlefs, Scanspeak, Seas, Volt. Over 30 kits. 4 demonstration rooms.

Send for catalogue: £2.00. Major Credit Cards accepted

Wellington Close, Parkgate Trading Estate, Knutsford, Cheshire WA16 8DX.
Telephone (0565) 650605 Fax (0565) 650080

CARTRIDGES & HEADPHONES

Cartridges and Headphones; £25-£1000.

Ortofon, Audio Technica, Denon, Goldring, Shure, Arcam, Sennheiser, Beyer, Koss *plus others. Trade in your old moving coil* – substantial discounts!

IAN HARRISION HI-FI

(Mail Order only)

7 Mill Hill, Repton, Derby, DE65 6GQ Telephone: (0283) 702875

To find out more about advertising in the finest Hi-Fi magazine in the world, call Jennifer Phillips on (071) 917 7643

REVOX SERVICING

REVOX SERVICE

A77, B77, PR99

For fully guaranteed professional service and repairs, call RamTek.

Tel: (081) 207 6159. Fax: (081) 953 1118 Suite 33, Kinetic Centre, Theobald Street, Borehamwood, Herts WD6 4SE

HI-FI STYLIST

DAN DULEY

Top quality amplifiers & loudspeakers customer styled to fit in with your decor and furnishings.

Give your ears a treat – without compromising your aesthetics.

(081) 470 9795

HIFI ACCESSORIES

KLIPSCH

Horn loudspeakers **– a legend in sound for over 50 years, KLIPSCH hi-efficiency speakers are used in many studios, top hi-fi and stage systems.**

FOR DETAILS CALL

(021) 430 7817

CARTRIDGES

HEATHERDALE AUDIO LTD

TEL: (0903) 872288 FAX: (0903) 872234

202 Findon Road, Worthing, W. Sussex BN14 0CJ

To experience the ultimate in record reproduction, come and listen to a CLEARAUDIO cartridge. Hand crafted in West Germany, these fabulous cartridges will retrieve more information and MUSIC from your valuable record collection than you thought possible.

DEALER ENQUIRIES WELCOME

AUDIO CABLES

Custom Made STUDIO QUALITY CABLES

DIRECT FROM THE MANUFACTURER AT TRADE PRICES

Handmade & Highly Recommended
Available only by Mail Order

7 day money back guarantee. For details contact:

CONNECTIONS UK

TEL/FAX 0733 897379

49 BISHOPS ROAD PETERBOROUGH PE1 5AP

FAST • CHEAP RATES • EXCELLENT SERVICE

THE REVOX MOBILE SERVICE

ALL MODELS

call us: UK (0850) 167955

24 HRS INCLUDING WEEKENDS
ENQUIRIES WELCOME FROM OVERSEAS

WHY CONTINUE TO ACCEPT OTHER INFERIOR SERVICE?

THERE IS ONLY ONE LIKE US

FREE TECHNICAL ADVICE **FREE ESTIMATES**

TECHNICAL SERVICES

CLOCK THIS

CD Transport/player clocking to ultimate performance. This is a modification to the digital processing circuitry with unbelievable results. External DAC's can still be used to advantage, resulting in further enhancement. Probably the best CD upgrade you will ever make. Technically proficient engineers will also handle all your high end repair, servicing or modification requirements. *Please call us on (0209) 612260 for further details.*

RJF AUDIO VISUAL 84 Pendarves Street, Tuckingmill, Camborne, Cornwall TR14 8NJ

• Also High End Retail •

MULTIROOM INSTALLER

Gospel Music Audio

The Service Consultancy Design and Professional Installation of Multiroom Audio Visual Systems, Satellite, Home Cinema Surround, Pro-Logic and THX.

Call Doug or Jean

(0544) 230254

32A HIGH STREET, KINGTON, HEREFORDSHIRE

SPARES

Lockwood Audio

Tel: 081-207 4472 Fax: 081-207 5283

WE BUY AND SELL NEW, USED AND VINTAGE SPEAKERS, DRIVERS, CABINETS, PARTS. SPEAKER REPAIRS

THE

Authorised* TANNOY *Specialists

MAJOR CREDIT CARDS WELCOME

IMPERIAL STUDIOS

MAXWELL ROAD, BOREHAMWOOD, HERTS WD6 1WE

VALVES

VALVES MADE IN WEST EUROPE OR RUSSIA

We have one million valves, CRTs, Sockets and Tubes in stocks by brands such as Brimar, GE USA, GEC UK, Mullard, Sovtek/Russia, Testa, Thermionic, Tungsram, etc.

Types include: 6L6GC, 12AT7, 12AU7, 12AX7, DG732, ECC81, ECC82, ECC83, EL34, EL84, KT66, KT88.

SEND FOR OUR 40 PAGE VALVE CATALOGUE!

Billington Export Ltd

1E Gilmans Industrial Estate,
Billingshurst, Sussex RH14 9EZ, UK.

CALLERS STRICTLY BY APPOINTMENT ONLY

FAX: (0403) 783519. TEL: (0403) 784961

Minimum order: UK £50.00 plus VAT Export £100.00

Classified

Choosing a good hi-fi dealer is the most vital step in acquiring the system that is right for you. This unique directory gives full information on dealers able to help in your area.

DEALER Directory

Members of the British Audio Dealers Association are able to offer:

- Two year guarantee, tranferable to another BADA dealer should the purchaser move more than 30 miles from his/her original address
- *low cost five year guarantee option*
- proper demonstration facilities
- *seven day exchange or refund scheme if the dealer's advice is taken on product selection*
- fully guaranteed service work
- *customer complaints procedure in the event of problems*

For more information, contact BADA on ☎ (071) 226 4044

AVON

AUDIO EXCELLENCE, 65 Park Street, Bristol. (0272) 264975. Great hifi carefully selected and demonstrated by friendly enthusiastic staff. Closed Mon. BADA

PAUL GREEN HI-FI LTD, C/O Harper Furnishings, Kensington Showrooms, London Road, Bath BA1 6AD. (0225) 316197. Technics, Denon, Sony, Rotel, AVI, Quad, Rogers, Mission, Tannoy, Aura and many many more. 2 demo rooms, home demos, appointments required, service dept, free install, home trial. Access, Visa, Int free credit, instant credit. Tue-Fri 9-5.30, Sat 9-5, closed Monday.

V' AUDIO, 36 Druid Hill, Stoke Bishop, Bristol B59 1EJ. (0272) 686005. ATC, AVI, Acoustic Energy, Audio Innovations, AMC, Analogue Electronics, Cadence Valve, Chord Amps, Exposure, Jamo, LFD, Pink Triangle, Ruark, Michell, REL, Sansui, SME (inc20A), Sonic Link, Stax, Townshend, Wadia. Dems by appt only, home trial facilities, free installation, service facilities.

BERKSHIRE

ARC AUDIO, 9 Dukes Ride, Crowthorne, Berks, RG116L2. (0344) 762201. Denon, Harman Kardon, JPW, Marantz, Monitor Audio, Onix, Rogers, Ruark, Tannoy, Thorens, Yamaha. Demo facilities, no appt necessary, home trial facilities, free install. Access, Visa, Diners. Open Mon-Sat 9-6pm (closed Wed at 1pm)

B&B HI-FI, 11-12 Market Place, Reading, Berkshire, RG1 2EG. (0734) 583730. Aiwa, Denon, Kenwood, Mission, NAD, Panasonic, Pioneer, Rotel, Sony, Technics. Free installation, Service dept. Access, Visa, Credit Facilities including interest free credit subject to status. 9.30-5.30, Sat 9-5.30. Also at: Bracknell, Maidenhead, High Wycombe, Newbury.

READING HI-FI CENTRE, 4 Queen's Walk, Broad Street Mall, Reading RG1 7QF. (0734) 585463. Your first choice for real hi-fi and home cinema sound. Arcam, Audiolab, B&W, Celestion, Micromega, Meridian, Quad, Rega, Rotel, Yamaha etc. Demonstration facilities (including home cinema). Free local installation. Bada guarantee. Open Tues-Sat 10am-6pm

BADA

BIRMINGHAM

SOUND ACADEMY 152a High Street, Bloxwich, Nr Walsall W. Midlands, (0922) 493499/473499. Audio equipment from leading and specialist brands on two floors, with 3 demo floors, home trials, home cinema with instore demo theatre, evening demo's by appointment. In house service dept. Mail order avail. Int free credit subject to status.Open 6 days 9am - 6pm.Late night friday. Expert advice, cable dressing and free installation is what makes Sound Academy the Midlands most exclusive Hi-Fi studio.

FOR FULL PRODUCT LISTING SEE ADVERT IN THE DEALER GUIDE BADA

BUCKINGHAMSHIRE

AUDIO INSIGHT LTD, 53 Wolverton Rd, Stony Stratford, Milton Keynes, Bucks MK11 1ED. (0908) 561551. Alchemist Products, AVI, Arcam, Audiolab, Aura, Heybrook, Meridian, Moth, Rotel, Royd, Ruark, TDL, UKD and more. Records and CDs, record cleaning service. SGL speaker demo room. Access, Visa and Finance,.

D.L. CHITTENDEN LIMITED, 59-61 The Broadway, Chesham, Bucks, HP5 1BX. (Opposite Boots). (0494) 784441 Philips, Mordaunt-Short, Denon, Kenwood, Canon Audio, Koss, Wharfedale. Nicam TV & Video, Surround Sound, AV Systems. Showroom Demonstrations from expert and friendly staff. No appts nec. Service Department. Credit facilities available. Open 8.30 to 17.30 Mon-Sat.

FACTORS SOUND AND VISION, 16 Hill Avenue, Amersham, Buckinghamshire HP6 5BW. (0494) 432944. Sony, Panasonic, Kenwood, Technics, JVC, Denon, JPW, KEF, Tannoy, Bose, Aiwa, Grundig. In shop and in home facilities. No appts required, service dept, free install, home trial. Access, visa, int free credit. Open Mon-Sat 9.30-5.30, closed Thur.

CAMBRIDGESHIRE

AUDIO FILE, 2 Foundry Walk, Market Hill, St. Ives, Cambridgeshire. (0480) 66123. Naim, Rega, Quad, Yamaha, Mission, Arcam, Denon, Audio Lab, Meredion, JPW. Musical Fidelity. 9.30am-6pm 6 days. 0% Credit. BADA

STEVE BOXSHALL AUDIO, 41 Victoria Rd, Cambridge CB4 3BW. (0223) 68305. 10-6 - 6 days. 3 dem rooms, home trial, appts. preferred. Free installation and service dept. Access, Visa & credit. BADA

UNIVERSITY AUDIO, 1-2 Peas Hill, Cambridge. (0223) 354237. Mission-Cyrus, Arcam, Rotel, Denon, Meridian, Ruark, ATC, AVI, Quad, Linn. 3 dems, 1 single speaker. Home trial, free install, Service Department Visa, Access, Amex, Credit. Open 9-5.30. BADA

CHESHIRE

ASTON AUDIO, 4 West St, Alderley Edge. (0625) 582704. For the very best in hi-fi separates and home cinema. Wide range of specialist audio, interest free credit. Visa, Access. Home trial. BADA

DOUG BRADY HI-FI, Kingsway Studios, Kingsway North, Warrington. Padgate (0925) 828009. For the very best in hi-fi separates and home cinema. All credit cards. 3 Dem rooms.Open6days. BADA

CHRIS BROOKS HI-FI, 29 Gaskell St, Stockton Heath, Warrington. (0925) 261212. Tues-Sat 10-6. 2 dem rooms. Credit facilities. All credit cards. Total absence of bull****. BADA

CONGLETON HI-FI, 1/1a Duke St, Congleton, Cheshire, CW12 1AP. (0260) 297544. Acoustic Energy, Arcam, B&W, Denon, Epos, Linn, NAD, Nakamichi, Onix, Royd, Target, Yamaha, etc. Superbly appointed single speaker demo facilities. 3 listening rooms with one dedicated to home cinema. No appts nec, home trial facilities, free installation. 2 year guarantee on all equipment. Access, Visa. Credit facilities available on request. Open Mon-SAT, closed Weds. BADA

NORMAN AUDIO, 106 Victoria Str, Crewe. (0270) 211091 Fx (0270) 211795. For full details see our Lancashire entry. BADA

PETERS HI-FI, 4 St Michaels Sq, Grosvenor Precinct, Chester,. (0244) 322063/319392. Arcam, Technics, Sony, Marantz, Dual, Denon, Tannoy, Wharfedale, Quad. 2 Single speaker Dem rooms, no appts nec, free installation service dept. Access, Visa, Amex. Peters credit chargecard. Mon-Sat 9-5.30.

THE HI-FI SHOWROOMS, 12A West Str, Congleton, Cheshire (0260) 280017. Celestion, Creek, Exposure, Musical Fidelity, Naim, Pink Triangle, Project, Rotel, Ruark, Systemdek, Tannoy, TDL, Technics. 5 Dem Rooms, No appts necc, Home trial, Free install, Service dept. Access, Visa, Lombard Tricity. Open 9-5:30, Closed Wed.

SWIFT Hi-Fi, St Annes Parade, Wilmslow. (0625) 526213. Aura, B&W, Denon, Kenwood, Marantz, NAD, Pioneer, Rotel, Systemdek,Tannoy, Revolver, JPW. Open 9:30am-6:00pm dem room. No pressure! BADA

CLEVELAND

ACTION ACOUSTICS, 155-157 High Street, Redcar, Cleveland TS10 3AN. 0642 480723. Audio Innovations, Denon, Harman-Kardon, JBL, Michell, Musical Fidelity, Pink Triangle, Revox, Rogers, Thorens, etc. Dem Room. Appts nec. Home trial facilities, free installation, service dept. Access, Visa & H.P. Open 9.15-5.30.

GILSON AUDIO LTD, 172 Borough Road, Middlesbrough. (0642) 248793. Exposure, Arcam, Mission, Cyrus, Denon, Marantz, NAD, Rotel, Pioneer, Audiolab, Tannoy, Teac, Yamaha. Demonstration facilities in main shop and 2 dem. rooms, 1 AV room, appt nec, home trial facilities, free install. on request, service department. Access, Visa, HP. 10-5 - 6 days. BADA

CORNWALL

DEFINITIVE AUDIO, Cornwall, Near St Austell, PL26 6R7. (0726) 844039. For audio componants/systems which actually work! Impulse, Micromega, OVA, Audio Innovations, Audio Note, Voyd, Systemdek, JPW, Silver Custom Design, DNM. Demonstration by apppointment only. Demonstrations throughout Cornwall, Free Installation. Service Facilities.

RJF AUDIO VISUAL, 84 Pendarves Str, Tucking Mill, Camborne, Cornwall TR14 8NJ. (0209) 710777/612260. TDL, Michell, Musical Fidelity,NAD, Nakamichi, Bower & Wilkins, SME, Micromega, Pink Triangle, Pro-jekt, Perception, Harman Kardon, Triangle. Integral Demo room/showroom and special home dems. Appts nec, home trial, free install, service dept. All cards, switch and transax. Open Mon-Sat 9.30-5.30.

CUMBRIA

MISONS SOUND & VISION, 11 Warwick Road, Carlisle CA1 1DH. Tel (0228) 22620. Bang & Olufsen, Rotel, Sugden, Harbeth, Quad, NAD, Yamaha, Sony. Demo Suite, No appts nec, Home trial facilities, Free Installation, Service Department. 9-5:30 Mon-Fri. Thurs 9-1. Sat 9-5.

PETER TYSON, 6 Abbey St, Carlisle, Cumbria, CA3 8TX. "Cumbria's premiere hi-fi centre". Part exchange welcome. (0228) 46756. Linn, Musical Fidleity, Cyrus, Marantz, Denon, Philips, Nakamichi, Technics, Pioneer, Creek & more. Dem room. Dems without obligation. Home trial, Free install. In-house service dept. Access & Visa. HP 9- 5.30pm.

DEVONSHIRE

THE HI-FI ATTIC, 58 New George St, Plymouth, Devon PL1 1RR. (0752) 669511. We stock most leading makes and have an expert enthusiastic staff. Premises include attractive hi-fi and home cinema demonstration rooms. We offer free installation and credit facilities (written details on request) also a fully equipped service department. We can also provide a mail order service for all your LaserDisc requirements.We accept Visa, Access, Amex.

UPTON ELECTRONICS, 31 Torquay Road, Paignton, Devon TQ3 3DT. (0803) 551329. Pioneer, Denon, Sony, Technics, Harman-Kardon, Quad, Tannoy, JPW, Monitor Audio, Audio Innovations etc. Single speaker demonstration. No appts required, service dept, free install, home trial. Access, Amex, Inst credit, Visa. Open Mon-Sat 9-5.30, Wed 9-1pm.

DORSET

DAWSONS, 23 Seamoor Road, Westbourne, Bournmouth, Dorset. (0202) 764965. B&O, Castle, Canon, Jamo, JBL, Pioneer, Sony, Target, TDL, Technics. No appts necessary. Free install, Service depart. Various credit facilities available. Open 9-5.30 6 days a week.

MIKE MANNING AUDIO New branch now open at: 128 Pool Road, Westbourne, Bournemouth. (0202) 751522. For details see main entry under Somerset.

SUTTONS HI-FI, 18 Westover Road, Bournemouth. 0202 555512. Linn, Arcam, Mission, Quad, Audiolab, Rotel, Yamaha, Denon,etc, 2 Single Speaker Listening Rooms, Home Demonstrations, Free Installations.Open Mon-Sat 9-5:30. Call for details. BADA

DURHAM

HI-FI EXPERIENCE, 17 Coniscliffe Road, Darlington DL3 7EE. Tel Help Line (0325) 481418. Agencies include: Arcam, Audiolab, Bang & Olufsen, Celestion, Cyrus, Denon, Harman, IMF, KEF, Marantz, Mission, Musical Fidelity, Meridian, NAD, Pioneer, Quad, Rotel, Shearne, Tannoy, Yamaha. 3 listening rooms. 3 years guarantee. Free delivery and simple installation North Yorks/South Durham. Home cinema specialist. BADA

ESSEX

AUDIO T, Gants Hill, 442-444 Cranbrook Rd, Gants Hill, Ilford, Essex 1G2 6LL. Tel: 081 518 0915 Fax 081 554 8463. Arcam, Audiolab, Cyrus, Denon, Kef, Meridian, Rotel, Micromega, Yamaha & many more. Mon-Sat 10-6. 3 yr gntee on Hi-Fi. Free del & instal. 30 day upgrade scheme. Home dems. PX. BADA

INDICATES MEMBERSHIP OF THE BRITISH AUDIO DEALERS ASSOCIATION

BRENTWOOD HI-FIDELITY, 2 Ingrave Rd, Brentwood, Essex, CM15 8AT. (0277) 221210. Audio Innovations, Denon, DNM, EAR, Marantz, Micromega, Mission, Pink Triangle, Quad, Tannoy plus many more. Single speaker dem rooms, home trials, evening appts (high end), home installations. Mon-Sat 9.30-5.30 . Access. Visa. Service Facilities. Advice second to none. BADA

RAYLEIGH HI-FI, 44a High Street, Rayleigh, Essex. (0268) 779762/747571, 216 Moulsham St, On-the-Parkway, Chelmsford. (0245) 265245. 132-134 London Road, Southend-on-Sea. (0702) 435255. A&R, Audiolab, Cyrus, Denon, Epos, Linn, Marantz,Meridian, Mission, Naim, Quad, Rega, Roksan, Royd. 0% finance. Excellent audio visual range, home cinema Dolby Pro-Logic, multi-room specialist. BADA

GLOUCESTERSHIRE

AUDIO EXCELLENCE, 58 Bristol Road, Gloucester. (0452) 300046. Great Hi Fi carefully selected and demonstrated by friendly and enthusiastic staff. Closed Mon. BADA

HUTCHINSONS, 295-297 High Str, Cheltenham, Glos. GL50 3HL. (0242) 573012. Pioneer reference point, Technics, Dual, NAD, jWharfedale, Celestion, Marantz, Aiwa, Kenwood, Sennheiser. No appts necessary, free install, service dept. Instant credit up to £1000. Open Mon-Sat 9.15-5.30.

HAMPSHIRE

AUDIO SOUTH for further details see the Surrey entry.

FLEET AUDIO, 287 Fleet Road, Fleet, Hants GU13 8RT. (0252) 811088. Micromega, Exposure, Ruark, Royd, Denon, Orelle, Aura, Nakamichi, Rotel, JPW. "Sound advice for a sound system". Home dem facilties, hours to suit. Appts prefered, service dept, free install within local area. Access, Amex, Visa. Open Tues-Sat 9.30-6pm

HAMPSHIRE AUDIO LTD, 2-12 Hursley Rd, Chandlers Ford, Hants SO53 2FU. (0703) 252827/265232. 3 hi-fi and 2 home cinema/Dolby surround sound demo studios. Thurs late eve, closed Mon (except in Dec). 2-year guarantee, service dept on site, large free car park, junctions 4 (M27/M3), 5(M27), 12(M3), 13(M3) all within 3 miles. Est 1969. BADA

JEFFERIES HI-FI 29 London Road, Portsmouth. PO2 0BH. Tel (0705) 663604. Hi-fi, home cinema and multi-room specialist. Range includes Adcom, Arcam, Celestion, Denon, Dynaudio, KEF, Lexicon, Linn, Meridian, Mitsubishi, Naim, Panasonic, Polk, Quad, Rega, REL, Rotel, Royd, Ruark, Sony. 2 dem rooms. Open Tues-Sat, late night Wed. Free parking, bus route, credit facilities. Winner Sony/Hi-Fi News Best Southern Dealer. BADA

HEREFORDSHIRE

ENGLISH AUDIO, 95 Whitecross Road, Hereford HR4 0DG. (0432) 355081 Cyrus Centre, Pink Triang;e, Audion, Systemdek, Heybrook, Michi, KEF Reference, Micromega, Nakamichi, Chord, Arcam, Musical Fidelity, Rogers, NAD, Rotel, Denon, Tannoy, Marantz, Mission, Stax, Dual, TDL, Albarry, JPW, Celestion, Ixos, SME, Ruark, Moth, Audio Technica and others. Single Speaker Dem room. Home trial. Free install. Service dept. Access, Visa, Credit arranged. Open Mon-Sat 10am-6pm. BADA

HERTFORDSHIRE

ACOUSTIC ARTS LTD, 101 St Albans Rd, Watford, Herts. (0923) 245250. Fax (0923) 230798 Adcom, AMC, Apogee, Audiolab, Audio Research, B&W, Bose, Celestion, Chord, Classe, Denon, KEF, Magneplanar, Marantz, Martin Logan, Michell, Micromega, Orelle, PS Audio, Professional Moitor, Roksan, SME, Sonus Faber, Sonic Link, TDL, Tannoy, Theta, Thorens, Wilson. 4 demonstration rooms. Purpose built AV studio. Credit available, 100 yards from Watford Junction station. Open Tues-Sat 10-6:00. BADA

AUDIO FILE, 27 Hockerill St, Bishops Stortford, Herts CM23 2DW. (0279) 506576. 9.30-5.30 open 6 days. Dealer of the Year 1988/89. Linn, Naim, Quad, Cyrus, Arcam, Roksan, Denon, Epos, Rotel, KEF, ProAc. 0% credit. BADA

HALEY AUDIO LTD, 328 Ware Road, Hailey, Hertford SG13 7PG. Tel (0992) 442425, fax (0992) 448387. Enjoy choosing your system in one of our three listening rooms. Relax with coffee or something from the bar. Demonstrations include Lexicon CP3 with THX surround sound with the guaranteed deepest, tightest bass available. Choose your hi-fi (top valves and MOSFETS), LD, CDi etc in a realistic domestic environment. Brands include; REL, AC Magnum, CR Devs, Rotel, Celestion, Micromega, Lumley Reference, Acoustic Energy, Royd, JPW, Sonic Link, Harmon, etc. We deliver anywhere in the UK for home audition, or mail order, Access, Visa etc.

STUDIO 82, 82 High Street, Harpenden, Herts AL5 2SP. (0582) 764246, Fax (0582) 467022. ATC/AVI, Arcam, Aura, Audiolab, Bang & Olufsen, Denon, Epos, Mission Cyrus, Naim Audio, Nakamichi, Quad, Nad etc. Quiet single speaker dem room. Appts nec. Home trial, free install Service Dept. Visa, Access & finance terms. Open 9-5.30pm (Mon;Sat). Closed Weds. BADA

KENT

ASHFORD SOUNDCRAFT HI-FI, 40 High Street, Ashford. Seeking music lovers, male or female any age, to share common interest in, musical Pro-aktiv Hi-Fi Systems, Multi Room or Home Cinema. Attractive unusual equipment in unusual setting, your place or ours, we guarantee lasting pleasure.Open Mon-Sat, Appointment Service or just pop in. Tel: 0233 624441. BADA

JOHN MARLEY HI-FI CENTRES, 2 Station Rd, West Canterbury. (0227) 769329. Also at Dover - (0304) 207562. Arcam, Aura, B&W, Heybrook, JPW, NAD, Pro-Ac, Pioneer, Rotel, Ruark, Tannoy, TDL, Technics. Dem and home trail facilities. Mon-Sat 9-5.30 closed Thurs. Free install. Credit to £1,000. Access,Visa, Credit charge. Service dept.

KIMBERLEY HI-FI, 193 Broadway, Bexleyheath, Kent. (081) 304 3272. Pioneer, Technics, Kenwood, Denon, NAD, Aiwa, Tannoy, Mission, Wharfedale, B&W. Separate dem room, no appt nec. Free installation. Service Dept. Instant credit facilities. 9.30-5.30. No early closing.

V J HI-FI, 29 Guildhall St, Folkestone. (0303) 256860. Mission, Kenwood, Tannoy, Marantz, Sony, Rogers, Denon, Musical Fidelity, Quad, Yamaha. Dem and home trial facilities, free local install. No appts necessary, service dept. Amex, Diners, Visa, Access, Int free credit, Instant credit. Mon-Sat 9-6. BADA

V J HI-FI, 119 High Street Margate. (0843) 226977. For full details see our above entry. BADA

LANCASHIRE

NORMAN AUDIO, 131 Friargate, Preston, Lancs PR1 2EE. Tel (0772) 253057. Fx (0772) 562731. Marantz, Pioneer, Yamaha, Audiolab,arcam, Mission, Cyrus, B&W, KEF. Send for catalogue. Home cinema demo room. No appointment nec, home trial facilities, free installation. Instant credit subject to status. Open 9.30-5.30, late night Wed till 8pm. BADA

NORMAN AUDIO, also at 216 Church Street, Blackpool, Tel (253) 295661, Fx (0253) 295722. BADA

LEICESTERSHIRE

LEICESTER HI-FI CO, 6 Silver Walk, St Martins Square, Leicester LE1 5EW. Tel: (0533) 539753. Fax (0533) 626097. Acoustic Energy, Arcam, Marantz, Micromega, Mission/Cyrus, Musical Fidelity, Nakamichi. Exposure, Rogers, Roksan, "and oodles more". 2 Dem rooms, home trial arranged, free install, service dept, Credit facilitiexs, Access, Visa, Diners, Amex, 6 days 9.30-5.30. BADA

LISTEN INN, 6 Hotel Street, Leicester. (0533) 623754 (Fax) 0533 623758. Linn, Arcam, Royd, Heybrook, Creek, Neat, Mission, Cyrus, Audiolab, Quad, Denon, etc. 2 Dem Rooms. BADA

SOUND ADVICE, The Factory, Duke St, Loughborough LE11 1ED. (0509) 218254. Shahinian, Rega, Naim, Linn, Royd, Yamaha, Rotel, Arcam, Nakamichi, JPW. 3 demonstration areas, no appts necessary, free installation, service department. Lombard credit charge, Access, Visa. Mon-Fri 9.30-6.00, Sat 9.30-5.30.

STE**REO** SHACK, 1-3 Guildhall Lane, Leicester. Tel 0533 530330 , Aiwa, A.R., Denon, Kenwood, Jamo, Mission, NAD, Phillips, Pioneer, Rotel, A/V Speciality. Free Install Open 9.30 - 5.30 6 days. Credit available.

LINCOLNSHIRE

BOSTON HI FI CENTRE, 65a Wide Bargate, John Adams Way, Boston, Lincs PE21 6SG. (0205) 365477. Denon, Quad, Nakamichi, Arcam, Onkyo, Marantz, NAD, Castle, Tannoy, Rogers, etc. Separate demo studio. Home trial. Free installation. Access, Visa. Tues - Sat 9-5 pm.

STAMFORD HI-FI CENTRE, 9 Red Lion Square, Stamford, Lincs PE9 2AJ. (0780) 62128. Pioneer, Technics, Marantz, Cyrus-Mission, Rotel, NAD, Yamaha, Kenwood, Quad, plus all major speaker manufacturers. Expert advice, comparator demonstrations, on two floors, part exchange Hi-Fi purchased for cash. No appointments necessary, home trial facilities, free installation, service department. Mastercard, Visa & credit charge, finance available. Mon-Sat 9-5.30pm, closed Thursdays.

SUPERFI, 271A High Str, Lincoln LN2 1JG. (0522) 520265. See main entry under Nottinghamshire for full details.

LONDON

BILLY VEE SOUND SYSTEMS, 248 Lee High Road, Lewisham, London SE13 5PL. 081-318 5755/081-318 1321. Arcam, Denon, Marantz, Linn, Mission, Cyrus, Naim, Nakamichi, Quad, Rega, etc. 2 domestic style listening lounges. Appts required, service dept, home trial facilities, Int. free credit, instant credit. Access, Visa. Open Mon-Sat 10-6.30, Closed Thurs. BADA

CORNFLAKE SHOP, 37 Windmill Street (just off Tottenham Court Road), London W1. Tel 071-631 0472 (all enquiries), Fax 071-436 7165. Open Tues-Sat 10-7pm. Rega, Roksan, Naim, Monitor Audio, Arcam, Nakamichi, ATC, AVI, Rotel, Epos, Meridian and Linn. 3 dem rooms (incl home cinema). Friendly professional service. Home trial facilities. Appointments preferred, full delivery and repair service, multiroom specialists. Access, Visa and Amex.

GRAHAMS HI-FI, Canonbury Yard, 190a New North Rd, London N1. 071-226 5500. Winner Sony/HFN Greater London Dealer Award 1986/89/90."One of the 5 best hi-fi shops in the world". Arcam, Linn, Meridian, Naim, Rega, etc. Systems from £500. FREE PARKING, 4 dem rooms, service dept, open Tues-Sat. RING FOR APPOINT. BADA

HI-FI & COMPONENTS, 84 Battersea Rise, London, SW11 1EH. Tel: 071 2231 110. Denon, Harman Kardon,Tannoy, Kenwood, Rotel, NAD, Wharfedale, Dual, Shure, Ortofon, Celestion, etc. Appts nec, Service Dept. Access, Visa, Diners, Amex, Open 10-6 Closed Wed.

HI-FI EXPERIENCE, Lion House, 227 Tottenham Court Road, London W1P -HX. Tel Help Line 071-580 3535 24 hour, fax 071-436 4733. Agencies include: Arcam, Audiolab, Bang & Olufsen, Castle, Celestion, Chord, Cyrus, Denon, Heybrook, Harman, IMF, KEF, Marantz, Mission, Musical Fidelity, Meridian, Nakamichi, Nad, Pioneer, Quad, Rotel, Shearne, Tannoy, TDL, Yamaha. 8 listening rooms, 3 years guarantee. Free delivery and simple installation (M25 periphery), home cinema specialist. BADA

INFIDELITY, 9 High Str, Hampton Wick, Kingston-upon-Thames. (081) 943 3530. For full details see entry under SURREY.

K.J. WEST ONE, 26 New Cavendish St, London, W1M 7LH. (071) 486 8262/63. Fax (071) 487 3452. Most established brands stocked. Two Hi-Fi and one Home Cinema dem' studios. Appts nec. Home trial. Free installation. Service dept. Major credit cards. Interest free crdeit usually available - ask for details. Mon-Sat 10-6pm. (Late night Thurs till 7pm)

MUSICAL IMAGES LTD, 173 Station Road, Edgware. 081-952 5535, fax 081-951 5864 & 45 High Street, Hounslow, Middlesex. 081-569 5802, fax 081-569 6353. See under Middlesex for further information. Main authorised dealers for over 100 manufacturers.

SOUND SENSE, 350 Edgeware Road, London W2 1DX. (071) 402 2100. Alphason, B&W, Kenwood, Nakamichi, Celestion, Denon, Monitor Audio, Marantz, NVA, Sony ES , Yamaha. Appts preferred. Installations available. Access, Visa, Standard credit facilities. Mon-Sat 9.30-6.30.

STUDIO 99, 79-81 Fairfax Road, Swiss Cottage, London NW6. 071-624 8855, Fax 071-624 5315. Naim, Meridian, Quad, Mission/Cyrus, Rega, KEF, Arcam, Epos, Acoustic Energy, Yamaha, Nakamichi, NAD, Sonus Faber, B&O etc. Single speaker dem room, AV demos. Multiroom. Service dept. Visa/Access credit facilities. 10-7 Mon-Fri, 10-6 Sat. BADA

UXBRIDGE AUDIO - CHISWICK, 109 Chiswick High Road, Chiswick, W4 2ED (081) 742 3444 Fax (081) 742 3295. 2 Demo Rooms, Installations, 2 Year Guarantee, 7 day exchange. Major credit cards, Tues - Sat 10 - 6, See Middlesex entry for brands stocked. BADA

ZEBRA, 18-24 Brighton Road, South Croydon CR2 6AA. 081 688 2093. Audio lab, Arcam, KEF Reference, Marantz, Mission, Micromega, Pioneer, Rotel, Sony, Tannoy, and large range of AV equipment. S2 Air Conditioned Demo Rooms. in a more casual environment. Service department. The UK's leading home cinema centre. Mon-Sat 9.30-6.00. Access, Visa, Switch & instant credit up to £1000 subject to status.

GREATER MANCHESTER

CENTRAL RADIO, 30-32 Shudehill, Manchester M4 1EY. Tel 061 834 6700. Technics, Kenwood, Pioneer, Aiwa, Marantz, Mission, B&W, Wharfedale, JBL, Thorens, Panasonic, etc. TV video, surround sound, AV systems, service dept, free delivery. Access, Visa, Switch finance. Mon-Sat 9-5.30.

THE AUDIO COUNSEL, 12 Shaw Road, Oldham, Manchester OL1 3LQ. (061) 633 2602. Linn, Yamaha, Rega, Rotel, Arcam, Micromega, EPOS, Creek, Nakamichi, Denon. 2 dem rooms. Free install. Visa, Access, Licenced credit brokers up to £1000 instant credit. 10.00-5.30 Tues, Weds, Sat; 10.00-7 Thurs& Fri. Closed Mon. BADA

SWIFT OF WILMSLOW, 4-8 St Annes Parade, Wilmslow. (0625) 526213. Aura, B&W, Denon, Kenwood, Marantz, NAD, Pioneer, Rotel, Tannoy, Revolver, JPW. Open 9:30am-6:00pm 2 dem rooms. No pressure! BADA

MIDDLESEX

HARROW AUDIO, 27 Springfield Rd, Harrow. (081) 863 0938. Mon-Sat 9.30-5.30. A&R, Audiolab, Cyrus, Denon, Epos, Monitor Audio, Musical Fidelity, Nakamichi, Quad, Rotel, Tannoy, Thorens, Yamaha. etc. BADA

MUSICAL IMAGES LTD, 45 High Street, Hounslow, Middlesex TW3 1IR. (081) 569 5802. FAX (081) 569 6353. & 173 Station Road, Edgware HA8 7JX (081) 952 5535. FAX (081) 951 5864. Authorised dealer for over 100 brands. Interest free credit, anywhere in the UK, subject to status. Demo rooms including big screen TVs. Repairs and service. Open all week including Sundays. Home cinema specialist. Mail order world wide. Part exchange. Musical Images club.

RIVERSIDE HI-FI LTD, 422 Richmond Road, East Twickenham, Middlesex TW1 2EB. Tel. (081) 892 7613. Fax (081) 892 7749. A.R., Arcam, Audio

BRITISH AUDIO DEALERS ASSOCIATION BADA THE ULTIMATE IN SOUND ADVICE

INDICATES MEMBERSHIP OF THE BRITISH AUDIO DEALERS ASSOCIATION

DEALER Directory

Innovations, Castle, Dual, Denon, KEF, Luxman, Michell, Musical Fidelity, Micromega, Marantz, Nakamichi, Rotel, Spendor, Systemdek, Tannoy, Yamaha. One demo room, in-car demo for car hi-fi systems. Appts not always necessary. Home trial facilities. Free installation, service dept. Lombard Tricity, Access, Visa, Amex, Diners Club. Mon-Sat 9.30-6, Thurs, Fri 9.30-7. BADA

MERSEYSIDE

W.A. BRADY & SON, 401 Smithdown Rd, Liverpool L15 3JJ. (051) 733 6859. 'Largest choice of specialist Hi-Fi in N.W. £100-£20K'. All credit cards. 3 dem rooms. Closed Monday. BADA

P & A AUDIO (BIRKDALE) LTD 31 Liverpool Road, Birkdale, Southport (0704) 68373. Arcam, Cambridge, Creek, Denon, Michell, Mission/Cyrus, Mordaunt- Short, NAD, Pink Triangle, QED, Revolver, Rogers, Rotel, Royd, Tannoy. 3 Single speaker demo rooms and Nicam surround sound dem room. Free delivery, installation (Merseyside) Service dept, Mon- Sat 9 - 5.30 Half day Tues, Access, Visa, Lombard.

PETERS HI-FI 11 Werburgh Sq, Grange Precinct, Birkenhead. 051-647 5626. 9-5.30 closed Thurs. See Cheshire entry for full details.

PETERS HI-FI, 11 St Werburgh Squ, Birkenhead. Also at 8 High Str, Bromborough. 051-334 1874/2825. Open 9-5.30 6 days a week. See Cheshire entry for details.

WEST MIDLANDS

AMADEUS SOUND & VISION, 10 Boldmere Road, Sutton Coldfield, West Midlands. 021-354 2311. Audio Innovations, aura, B&O, B&W, Castle, Marantz, Micromega, Musical Fidelity, Nakamichi, Harman Kardon, QED. Single speaker demo, appts preferred, service available, installations, B&O link install, home trials. Access, Visa, interest free credit available subject to status. 9.30-6pm, 6 days. BADA

FRANK HARVEY HI-FI EXCELLENCE, 163 Spon Street, Coventry CU1 3BB. (0203) 525200. Audiolab, Arcam, Bang & Olufson, Mission-Cyrus, Denon, Marantz, Meridian, Nakamichi, NAD, Quad, Rega, Rotel, Yamaha. 3 floors, 3 demonstration rooms, nice staff, nice coffee. Appts nec, service dept, free install, home trial facilities. BADA

All credit facilities available. Mon-Sat 9.30-5.30. Wed til 8pm.

GRIFFIN AUDIO LTD, 94 Bristol Street, Birmingham. (021) 692 1359/(021) 622 2230. Arcam,Castle, Denon, Linn, Marantz, Naim, Quad, Shahinians, Rega, Rotel. Open Tues-Sat 10-6. BADA

MUSIC MATTERS, 351 Hagley Road, Edgbaston, Birmingham B17 8DL. (021) 429 2811. Rotel, Denon, Lexicon, Tannoy, Ruark, Alchemist, Exposure, Pioneer, Roksan, Nakamichi, Arcam, Audiolab, Musical Fidelity, Mission/Cyrus, Meridian, KEF, Monitor Audio, Pink Triangle. 2 single speaker luxury demo rooms. Appts nec, home trial facilities, free installation, service dept. Access, Visa, instant credit up to £1000, interest free credit available. Tue-Thur 10.30-6, Fri 10.30-8, Sat 10-6. Branches also at: 93-95 Hobs Moat Road, Solihull, W Midlands B92 HJI. 021-742 0254. 156-157 Lower High Str, Stourbridge, W Midlands D18 1TS. (0384) 444184 BADA

NORFOLK

AUDIBLE DIFFERENCE, Near Diss, Norfolk. Tel (0379) 740227. Absolute Sounds, Audion, Art Audio, ATC, Audio Innovations, Audio Note, AVI, DPA, EAR, Impulse, LFD, Pink Triangle, Roksan, SME, Tube Technology. Full demonstration facilities including evenings. Appts required, free installation, home trial facilities. Open Mon-Fri 12-9pm, Sat 9-5pm.

AUDIO IMAGES, 7 All Saints Rd, South Lowestoft, Suffolk NR33 ODL. Tel: 0502 582853. For full details see our main entry under Suffolk.

BASICALLY SOUND, The Old School, School Rd, Bracon Ash, Norwich NR14 8HE. (0508) 570829. Arcam, Naim, Denon, Spendor, Audiolab, Sound Organisation, Creek, Epos, Rotel, Heybrook, TDL, Nakamichi, etc. 2 comprehensive dem rooms. Home trial. Free installation. Visa, Access, HP facilities. Tues-Sat 9.30-1, 2-5.30. BADA

NORTHAMPTONSHIRE

AUDIO CRAFT 23-25 Derngate, Northampton, NN1 1TY. Tel: 0604 36291. Bang & Oulfsen, Kenwood, Technics, Marantz, Celestion, Mordaunt-Short. No appts nec, Free Install, Service Dept. Open Mon-Sat 9-5:30pm

CLASSIC HI-FI + VIDEO, School Lane, Kettering, Northants. (0536) 515766. Heybrook, Rotel, Yamaha, Onix, Onkyo, LSD, Nad, Pioneer, Marantz, Kenwood, Kef, Shearne, Rogers, Metaxas Audio and many more. Home trial, free instal., service dept. Access, Visa, credit facs. 9.30-5 .30pm.

LISTEN INN, 32 Gold Street, Northampton. (0604)37871 (Fax) (0604) 601430 . Linn, Naim, Rega, Epos, Royd, Mission, Cyrus, Arcam, Audiolab, Neat , Creek, Quad, Denon etc. 2 Dem Rooms BADA

NOTTINGHAMSHIRE

CHANTRY AUDIO, 16-18a Eldon Street, Tuxford, Nr Newark, Notts NG22 0LH. (0777) 870372. Pink Triangle, DPA, Rotel/Michi, Micromega, NVA, Absolute Sounds, Alema, CR Developments, Michell, Lumley, Ruark, SME and much more! 3 dem rooms. Home trial, free installation, service dept. Access, Visa & credit facilities and mail order. Mon-Sat 9:30-6pm Sun by appt.

DEFINITIVE AUDIO, (0602) 813562. For a carefully considered approach to building a true hi-fidelity audio system with components derived from the following manufacturers; Audio Innovations, Snell, Wadia, Micromega, Deltec, Voyd, Systemdek, SME, Revox, Ortofon, Pioneer. Demos by appt. Please phone for further details. Installation free of charge. Mon-Sat 10-7, closed Wed am.

NOTTINGHAM HI-FI CENTRE, 120-122 Alfreton Road, Nottingham. (0602) 786919. Over 25 years experience, superb demo rooms, extensive range, free parking. Mon-Sat 9-5.30. BADA

PETER ELLIS AUDIO, 29 Kirkgate Newark, Nottingham, NG24 1AD (0636 704571) Quad, Castle, Arcam, Audio Innovations, JVC, QED, Sugden, Tannoy, TDL, Thorens, Marantz, Denon, Teac. Demo Room, Free Install, Service Department. Home cinema dem room. Home trial facilities. Switch, American Express, Access, Visa, Mon-Sat 9-5:30 Close at 1:00pm on Thursday.

OXFORDSHIRE

ASTLEY AUDIO LTD, 3 Marketplace, Wallingford (0491) 839305. Aura, B&W, JPW, Technics, Panasonic, Pioneer, Kenwood, Marantz, Sony, Yamaha, Denon, Dual, Mission, TDL, Tannoy. Home trial, free installation. Service dept. Access, Visa, Amex, Diners. Instant credit. Tue-Fri 9-5.30, Sat 9-5. Records & CDs stocked.

OVERTURE HI-FI, 3 Church Lane, Banbury, Oxfordshire OX16 8LR. (0295) 272158. Arcam, Heybrook, Mission, Quad, Denon, Linn Products, Naim Audio, Epos, Meridian, Nakamichi. For sensible unbiased adivce, call Oxfordshire's audio experts. Superb demo facilities. No appts nec, service dept, free install, home trial. Access/Visa, instant credit. Mon-Fri 10-6, Sat 9.30-5.30. BADA

OXFORD AUDIO CONSULTANTS, Cantay Hse, Park End Street, Oxford OX1 1JE. (0865) 790879 fax (0865) 791665. NAD, Rotel, Musical Fidelity, Pioneer, Marantz, Rogers, TDL, Thorens, Audio Research, Proceed.2 Demo rooms. Service Dept, Home trial and free installation. Instant credit, Access, Amex, Visa. 10-6 Mon-Sat. BADA

WESTWOOD AND MASON, 46 George St, Oxford. Tel: (0865) 247783. Aura, Arcam, Denon, Epos, Royd, Marantz, Mission, Monitor Audio, Nakamichi, Naim, Quad, Rotel, Rega, Tannoy, Teac. Open 10-5pm. Dem room. Closed Thur. BADA

SHROPSHIRE

AVON HI-FI, 12 Barker Street,Shrewsbury, Shropshire SY1 1QJ. (0743) 355166. NAD, Quad, B&W, Kenwood, Aiwa, Bose, Nakamichi, Onkyo. Dem room. Home trial. Free install. Service dept. Access, Visa. £1000 instant credit. Mon, Tues, Wed, Fri, Sat 9-5.30.

CREATIVE AUDIO, 9 Dogpole, Shrewsbury. (0743) 241924. Arcam, Audiolab, Celestion, Cyrus, Denon, Epos, Kef, Meridian, Mission, Naim, Quad, Rega, Roksan, Rotel, Ruark, Tripod. Dem room. Home trial and free installation. One of the best ranges of quality hi-fi outside London. Credit to £1000. Access, Visa. Tues-Sat 9.30-5.30. Service dept.

SOMERSET

MIKE MANNING AUDIO, 110 Middle Street, Yeovil, Somerset BA20 1NE. (0935) 79361, Fax (0935) 32923, Mobile(0850) 325965. Naim, Roksan, Pink Triangle, A+R (Arcam), ATC, AVI, NAD, Pioneer, Rotel, Denon, etc. Dedicated listening lounge, for relaxed and unpressured demonstrations. Appts not usually nec. but best to phone first. Home trial facilities on request, free installation, service department. Instant credit, Access & Visa, etc.9-5.30 closed Mondays.

STAFFORDSHIRE

GRANGE HI-FI LTD, 153 Branston Rd, Burton-on-Trent, Staffordshire DE14 3DQ. (0283) 33655. Albarry, Audio Innovations, Arcam, Castle, Denon, JPW, Marantz, Moth, Pink Triangle, Rotel, Rogers, Systemdek, SME, Tannoy, TDL, Yamaha. Home cinema and hi-fi demo rooms, appts nec on Sat, Free Install. Service dept Access, Visa, interest free credit available, subject to status. 9.00-5.30pm.Closed for lunch 12.00-12.30. BADA

SUFFOLK

AUDIBLE DIFFERENCE, Near Diss, Norfolk — see main entry under Norfolk.

AUDIO IMAGES, 7All Saints Rd, Pakefield, South Lowestoft, Suffolk NR33 6JL. Tel/Fax: 0502 582853. Quad, Triangle, Arcam, Castle, Rotel, Moth, JPW, Finlux, Audio Innovations, plus the amazing Rothwell range. Separate demo room, no appts nec.10-6,30 Tue-Thur, 7pm Fri, 6pm Sat.

BASICALLY SOUND, The Old School, School Rd, Bracon Ash, Norwich. (0508) 570829. For full details see entry under Norfolk. BADA

BURY AUDIO, 47 Churchgate St, Bury St Edmonds, Suffolk, IP33 1RG. Tel (0284) 724337. Arcam, Castle, Heybrook, LFD, Marantz, Meridian, Monitor Audio, Michell, Musical Fidelity, Orelle, Pink Triangle, Proac, Quad, Rotel, Ruark, Target, van den Hul, etc. Single Speaker Room. No appointments necessary. Home trial fac. Free Installation. Access, Visa, Switch. 9.30-6pm Mon-Sat. Closed Wed

EASTERN AUDIO, 41 Bramford Rd, Ipswich. (0473) 217217.Quad Audio Lab, Denon, Dual, Marantz, Mission, NAD, Nakamichi, Technics, Arcam. Mon-Sat 9.30-6. BADA

SURREY

AUDIO SOUTH, 24 (The Woolmead) East Str, Farnham, Surrey GU9 7TT. (0252) 714555. Audio Note, Deltec, JPW, Marantz, Rotel, Teac, etc. AV specialist. Dem room and evening appointments available. Home trial facilities. Free installation. Access, Visa. 10.30-6 Mon-Sat.

INFIDELITY, 9 High Str, Hampton Wick, Kingston Upon Thames, Surrey. Tel: (081) 943 3530. Arcam, Creek, Epos, Heybrook, Micromega, Naim Audio, Roksan, Rega Research, Shaninian, TEAC. Single speaker listening room. Appts pref, free installation, service dept. Major credit cards. Closed Mon, Tue-Fri 10.30-7, Sat 10-6.

P.J HI-FI - the Hi-Fi Shop, 3 Bridge St, Guildford, Surrey GU1 4RY. (0483) 504801/304756. 9-6 Mon-Sat. Linn, Meridian, Arcam, Quad, Revox, Rotel, NAD, Nakamichi, Marantz, Yamaha, Deltec, Rega, Audiolab,Mission/Cyrus. BADA

RIVERSIDE HI-FI, 422 Richmond Road, East Twickenham. TW1 2EB. Tel: (081) 892 7613. Fax: (081) 892 7749. See main entry under Middlesex. BADA

ROGERS HI-FI, 13 Bridge Street, Guildford, Surrey. (0483) 61049. Aiwa, Creek, Denon, JPW, Marantz, Micromega, Rogers, TEAC, Pioneer, Systemdek, Tannoy. Demonstration facilities available, no appointment necessary. Free installation. Service department. Access/Visa. Instant credit up to £1,000 subject to status. Monday-Saturday 9.30-6pm, later by appointment.

SPALDINGS HI-FI, 352-4 Lower Addiscombe Rd, Croydon, Surrey CRO 7AF. 081-654 1231/2040. Linn Naim, Quad, Meridian, Audiolab, Mission, Marantz, Denon, Ruark, Tannoy, Arcam. 3 dem rooms including AV room. Service dept, free install, home trial facilities, appointments advisable. Access, Visa, Amex, Interest free credit, instant credit. Mon-Sat 9-5.45. Tues-8. Closed Wed. Service dept. BADA

SURBITON PARK RADIO, 48 Surbiton Rd, Kingston-Upon-Thames, Surrey. (081) 546 5549. Quad, Castle, Dual, Denon, Kenwood, Mordaunt-Short, Rotel, Pioneer, QED, B&W, Tannoy. Demo facilities. Access, Visa. 9.30-5.00 Mon-Sat. Service dept.

ZEBRA 18-24 Brighton Road, South Croydon CR2 6AA. 081 688 2093. See main entry under London.

SUSSEX (EAST)

JEFFRIES HI-FI, 69 London Road, Brighton BN1 4JE. (0273) 609431. Hi-fi, home cinema and multi-room specialist. Range includes Adcom, Arcam, Celestion, Denon, Dynaudio, KEF, Kinshaw, Lexicon, Linn, Meridian, Mitsubishi, Naim, Panasonic, Polk, Rega, REL, Rotel, Royd, Ruark, Shahinian, Sony. 2 dem rooms. Open Tues-Sat, late night Wed. Free parking, bus route, credit facilities. Winner Sony/Hi-Fi News Best Southern Dealer. BADA

JEFFRIES HI-FI, 4 Albert Parade, Green Street. Eastbourne BN21 1SD. (0323) 31336, Fax (0323) 416005. Hi-fi, home cinema and multi-room specialist. Range includes Adcom, Arcam, Celestion, Denon, Dynaudio, KEF, Lexicon, Linn, Meridian, Mitsubishi, Naim, Panasonic, Polk, REL, Rotel, Royd, Ruark, Sony. Two demonstration rooms. Open Tues-Sat, late night Wed. Free parking, bus route, credit facilities. Winner Sony/Hi-Fi News Best Southern Dealer. BADA

THE POWERPLANT, 66 Upper North Street, Brighton BN1 3FL. (0273) 775978. Cyrus, Roksan, Micromega, Epos, Rega, Arcam, Audiolab, ATC, Theil, Rotel, Audionote etc. Single speaker demonstration room, home trial available, no appts required, service dept, free installation.Access, Amex, Visa, Interest free credit, instant credit. Tue-Sat 10-6pm. BADA

SUSSEX (WEST)

AUDIO DESIGNS, 26 High Street, East Grinstead, West Sussex RH19 3AS. (0342) 314569. Arcam, Audiolab, Cyrus, Epos, Linn, Marantz, Naim, Rotel, Mission, Sony. Comfortable listening room.

BRITISH AUDIO DEALERS ASSOCIATION BADA THE ULTIMATE IN SOUND ADVICE

INDICATES MEMBERSHIP OF THE BRITISH AUDIO DEALERS ASSOCIATION

Installation and service dept. Access, Visa and credit facilities. 9:30-6:00 Mon-Sat, late Tue BADA

BOWERS & WILKINS LTD, (Est. 1945) 1 Becket Buildings, Littlehampton Rd, Worthing. (0903) 2 64141. 1 minute from A24 & A27. Free local parking. Aura, B&W (inc. Matrix), Castle, Denon, Mission, Nakamichi, Philips, Quad, Technics, Thorens, and many more in 3 Dem Rooms. Systems, Hi-Fi and Home Cinema. Service Dept., Installations. Open 6 days a week. Access, Visa, instant credit to £1000 subject to status.

CHICHESTER HI FI, 7 St. Pancras, Chichester, W. Sussex PO19 1SJ. Tel: (0243) 776402. Linn, Naim,Rega, Creek, Nakamichi, A&R, Denon, Roksan etc. Tues-Sat, 10-1, 2-5.15 (closed Mon). BADA

TYNE & WEAR

RED RADIO SHOP AND HI-FI CENTRE, 11 Olive Street (Off Park Lane), Sunderland, Tyne & Wear SR1 3PE. 091-567 2087. Castle, Denon, JVC, Kenwood, Mordaunt-Short, Michell, Pioneer, Teac, Tannoy, TDL. TV, video, stylii, cartridges, components, accessories, portables etc. Audio/visual dem room with cinema sound. On site repair service, interest free credit. 9am-5.30pm daily.

WARWICKSHIRE

FRANK HARVEY HIFI, 163 Spon Street, Coventry, Warwickshire, CV1 3BD. Tel 0203 525200. Arcam, Mission, Cyrus, Musical Fidelity, Marantz, Rotel, NAD, Tannoy, Yamaha, KEF. Open 9:30-5:30 closed Thursday BADA

HOUSE OF MUSIC, 44 Park Street, Leamington Spa, Warwickshire CV32 4QN. (0926) 881500. Linn, B&O, Meridian, Mission, Celestion, Arcam, Rotel, Sony Esprit, Denon, Aura. Two separate rooms. No appts required, service dept, free install, home trial. Access, Amex, Visa, Diners, Int free credit, instant credit. Open 9.30-5.30 6 days. BADA

SOUNDS EXPENSIVE, 12 Regent Str, Rugby. (0788) 540772. Arcam, Audiolab, Quad, Meridian, Marantz, Mission, Celestion, KEF, Rotel, Ruark, Rotel, Heybrook. IMPROVE YOUR IMAGE, BE SEEN WITH US. appts required, no service dept, free install, home trial facilities. Access, Amex, Visa, Diners, Instant credit. Open 9-5.30pm Mon-Sat. BADA

WILTSHIRE

THE AUDIO EXCHANGE, 52 Morse Str, Swindon, Wiltshire SN1 5QP. (0793) 539008. Acoustic Energy, Audio Innovations, Cerwin Vega, CR Developments, Heybrook, Impulse, Micromega, Michell, REL, Sequence, Sugden. AV and single speaker demo room. Home trial facilities, free installation, service dept. 10-6 Mon-Sat.

AUDIO T, 60 Fleet St, Swindon, Wiltshire . SN1 1RA. (0793) 538222, Fax (0793) 487260. Great hi-fi from Arcam, Audiolab, Cyrus, Denon, Linn, Meridian, Mission, Rotel, Sony, Yamaha, and many more. Mon-Sat 9.30-5.30. 3 yr gntee on Hi-Fi. Free del & instal. 30 day upgrade scheme. Home dems. PX. 2 dem rooms. A/V Dept. BADA

WORCESTERSHIRE

COLORAMA HI-FI, 27 Kingfisher Walk, Kingfisher Centre, Redditch, Worcs B97 4EY. (0527) 597260. Aura, Nad, Onkyo, Kenwood, Denon, TDL, Polk Audio, B&W, Tannoy, Full Pro-Logic products. In-store integrated dem facilities. No appts required, service dept. Access, Visa.Open 9-5.30, closed Thur.

SPAINS HI-FI, 2&2a New Road, Bromsgrove, Worcestershire. Tel: (0527) 872460. B&W, Denon, Kef, Kenwood, Marantz, Mission, Nad, Pioneer, Rotel, Sony, Tannoy and more. Integral demo room/showroom for instant comparisons on hi-fi and AV equipment. Free installation, service dept & credit facilities, Access & Visa.

WEST MIDLANDS AUDIO, 158 Ombersley Road, Worcester WR3 7HA. (0905) 58046. Audiolab, Arcam, Naim Audio, Rega, Kef, Roksan, Epos, Quad, Nakamichi, Absolute Sounds and lots more. 4 demo rooms for budget & high-end audio. Dedicated DSP room. Appointments required. Free install, service dept. Access, Visa, Amex, Diners, Switch. Chartered Trust. Mon-Sat 9.00-5.30 late evenings by appt.

YORKSHIRE (NORTH)

HARROGATE HI-FI, 15 Commercial Str, Harrogate, N Yorks. (0423) 504274. Alchemist, Albarry, Ruark, Cabasse, Tannoy, Lumley Reference, Orelle, Celestion, NAD, Onkyo, Rotel, Yamaha. Single speaker dems, home cinema dems. Appts required, service dept, free install, home trial. Access, Amex, Visa, Int free credit, instant credit. Open 10-6pm closed Mon. BADA

SCARBOROUGH HI-FI CENTRE, 14 Northway, Scarborough, N. Yorks YO11 1JL. (0723) 374547. Alchemist, Lumley Reference, Nad, Rotel, Onkyo, Mission, Celestion, Orelle, Marantz, Tannoy, Ruark. Dem room, home dems. Appts required, service depart, free install, home trial. Access Visa Int free Credit, Amex, Diners. Open 10-6 Mon to Sat. BADA

SOUND ORGANISATION YORK, 2b Gillygate, York YO3 7EQ. Tel: (0904) 627108. Closed Mondays. Linn, Naim, Rega, Creek, Meridian, Arcam, Denon, Royd, Rotel and other well chosen makes."You can't go wrong — we wouldn't let you". BADA

VICKERS HI-FI, 24 Gillygate, York. (0904) 629659. Audiolab, Harman-Kardon, Marantz, Musical Fidelity, Pink Triangle, Quad, Systemdek, Tannoy, Technics, & lots more. 3 demonstration studios (2 by appointment) superb showrooms, 2 year guarantee on all hi-fi products. Appts as above, home trial facilities, free installation, service department. Qualified and experienced staff, over 25 years experience.12 months interest free credit. 10.30-5.30 Mon-Sat.

YORKSHIRE (SOUTH)

HI-FI STUDIOS, Sunnyfields, Doncaster, S Yorks DN5 85A. (0302) 781387. TDL, Sugden, Proac, Ruark, Teac, Impluse, Systemdek, Alphason, Target, Albarry, Heybrook, Monitor Audio, JPW, Totem, Harbeth, Keswick Audio Research, Michell Engineering, AMC (CD & Valves), CR Developments (Valves), Art Audio (Valves), REL Acoustics, Projects Origin Live, Dual, Yamaha. Home cinema Pro-Logic demonstrations, listening room, dems, home trial, free delivery and install, 2 year guarantee. Access, Visa. 10-8pm Mon-Fri, 10-6 Sat. Phone for further info.& FREE fact pack.

YORKSHIRE (WEST)

AUDIOVISION (BRIGHOUSE) LTD, 5 Bethel Street, Brighouse, W Yorks HD6 1JR. (1 mile from junction 25, M62) (0484) 713996. Yorkshire's experts for the entire range of Technics hi-fi separates and systems, Panasonic Nicam TV, satellite, audio, VCRs and camcorders, Philips widescreen TV, CDi and Laserdisc players and Yamaha cinema DSP separates. Also, Castle Acoustics, Mordaunt-Short, Bose, TDL, Cerwin Vega and Aiwa hi-fi separates. Hi-fi, home cinema and Dolby ProLogic surround sound systems on continuous demonstration. Free specialist advice and expert installation. In store service dept, Access, Visa, Credit charge. Mon-Sat 9-5.30.

DOUG BRADY HI-FI, The Forge Cottage, 19 Crossgate, Otley, Leeds, West Yorkshire LS21 1AA. (0943) 467689, for the very best in hi-fi separates and home cinema. Naim, Arcam, Rotel, Pink Triangle, Meridian, Epos, Castle. Two dem rooms, free install, service. Access/Visa. Open 10-6pm Tues-Sat. BADA

HUDDERSFIELD HI-FI CENTRE, 4 Cross Church St, Huddersfield. (0484) 544668. B&W, Cyrus, Kenwood, Denon, Rotel, Arcam, Musical Fidelity, Quad, Audio Lab, Marantz, Mission, etc. Dem facilties – appointment reqd. Mon-Sat 9-5.30, Thurs 9-8. Closed Wed. Free installation, credit facilities. Access, Visa.

IMAGE HI-FI, 17 The Springs, Wakefield, WF1 1QE. (0924) 200272. Arcam, Linn, Meridian, Mission, Quad, Rotel, Etc. 2 Listening Rooms Free Parking, DelL & Instal Mon-Sat 9:30 5:30 pm BADA

IMAGE HI-FI, 8-10 St Annes Road, Headingley, Meridian, Mission, Quad, Rotel, Etc. 3 Listening Rooms. Free Dem & Instal. Open Mon-Sat 9:30 - 6:00pm BADA

NORTHERN IRELAND

BELFAST

LYRIC HI-FI, 161/163 Stranmillis Road, Belfast. (0232) 381296, Fax (0232) 661115. Linn, Naim, Rega, Arcam, Castle, Denon, Rotel, Royd, Epos, Shahinian, Sehring etc. Free delivery and installation, service dept, 3 single speaker demo rooms, interest free credit available. Open Mon-Sat 10-6, Late night Thurs, closed all day Wednesday.

ZEUS AUDIO, 2-4 Grt Victoria Str, Belfast BT2 7BA. (0232) 332522. Audio Innovations, Pink Triangle, Roksan, Marantz, Tannoy, Rotel, Micromega, Meridian, Mission Cyrus etc. Open Mon-Sat 10.00-5.30. Late night Thursday. BADA

COUNTY DOWN

ASTON AUDIO, Unit 8, Kings Road Shopping Centre, Kings Road. Belfast. Tel: 0232 402220. Akai, Aiwa, Technics, JVC, Mitsubishi, Samsung, Toshiba, Panasonic, and many more. Demos available, Open Mon-Fir 10-8pm Sat 10-5pm

SCOTLAND

EDINBURGH

IN HI-FI, Galloway House, 8-10 Bakers Place, Corner of St Stephen St, Stockbridge, Edinburgh EH3 6SY. 031-225 8854. Arcam, Castle, Cyrus, Marantz, Meridian, Mission, Quad, Rogers,Sony, Yamaha, and other good brands. Full home cinema demonstration lounge. 2 hi-fi demo lounges. No appts required, service dept, free install, home trial facilities. Access, Amex, Visa, instant credit. Open Mon-Sat 9.30-6pm. BADA

GLASGOW

STEREO STEREO, 278 St. Vincent St, Glasgow G2 5RL. (041) 248 4079. Fax 0555 82358 Linn, Naim, Rega, Arcam, Creek, Epos, Castle, Shahinian, Denon and Sehring etc. 3 Single Speaker Demo Rooms. No appointments necessary. Home Trial Facilities. Free Installation. service dept. Interest free credit all standard facilities. Closed Tues Mon-Sat 10-6.

GRAMPIAN

HI-FI EXCELLENCE, 293 Union Grove, Aberdeen, AB1 6TD. Tel 0224 322520. Aiwa, Audio Innovations, Denon, Impulse, Infinity, Musical Fidelity, Rotel, Roksan, TDL. 2 large single speaker dem rooms. Appts necessary after 6,00pm. Home trial facilities, Free Installation, Service Department. Various offers. 3 Yr guarantee. Open 10-6.00pm 6 days.

HIGHLANDS

THE MUSIC STATION, 49 Church Str, Inverness IV 1DR. Tel: (0463) 225 523. Beyer Dynamic, Celestion, Denon, Jamo, Kef, Kenwood, Marantz, Mission, Musical Fidelity, Pioneer, Rotel, Sony. Listening room service dept, free delivery to local area, part exchange,full range of credit facilities.

STIRLING

STIRLING AUDIO, 19 Barton Str, Stirling, Scotland FK8 1HF. (0786) 479958. Linn, Mission, Cyrus, Marantz, Arcam, TDL, Heybrook, Tannoy, Aiwa, Audio Innovations. Dem room. No appts necessary, service dept, free installation, home trial. Access, Visa, Int free credit, instant credit. Mon-Sat 10-5.30, closed Wed.

TAYSIDE

J.D. BROWN, 28-36 Castle St, Dundee DD1 9NZ. (0382) 26591. Rotel, Denon, Pioneer, Technics, Aiwa, Mission, Castle, Mordaunt-Short, Monitor Audio, Bose, Infinity. All equipment ready for demonstration. No appt nec, free installation, service dept. Open 9.30-6pm six days a week, (close 5pm Sat).

WALES

CLWYD

ACTON GATE AUDIO, 4 Ruabon Rd, Wrexham (0978) 3644500. Audio Visual specialists. Aiwa, Arcam, AMC, Bose, B&W, Beard, Canon, Celestion, Castle, Cyrus, Jamo, Marantz, Michell, Mordaunt-Short, Musical Fidelity, NAD, Nakamichi, Micromega, Quad, Radford, Rotel, Rogers, Rega, Ruark, Spendor, Tannoy, Wharfedale, UKD, Yamaha DSP member. Demonstration room, installation service. Easy parking and motorway access. Access, Visa etc. BADA

SOUTH GLAMORGAN

AUDIO EXCELLENCE, 134 Crwys Road, Cardiff. (0222) 228565.Great Hi Fi carefully selected and demonstrated by friendly, enthusiastic staff. Closed Mon. BADA

WEST GLAMORGAN

AUDIO EXCELLENCE, 9 High St, Swansea. (0792) 474608. Great HI-Fi carefully selected and demonstrated by friendly, enthusiastic staff. Closed Mon. BADA

GWYNEDD

I&H GRIFFITHS & SONS, 313 High St, Bangor LL57 1YA. (0248) 370655. Aura, Yamaha, Tannoy, Teac, Sony, B&W, SVC, Rotel. Demos available, no appts nec, home trial facilities, free installation, sevice dept. Access, Visa, Lombard credit charge. Mon-Sat 9-5.30, Wed 9-1. Audio Visual Specialists.

PETERS HI-FI Victoria Buildings, Mostyn Avenue, Craig-y-don, Llandudno. (0492) 876788. 1 Single speaker dem room. Open 9-5.30. Closed Wed. See Cheshire branch for details

To advertise in this section call *Jennifer Phillips* on 071-917 7643

BRITISH AUDIO DEALERS ASSOCIATION BADA THE ULTIMATE IN SOUND ADVICE

INDICATES MEMBERSHIP OF THE BRITISH AUDIO DEALERS ASSOCIATION

Lumley Reference

"FOR REAL MUSIC LOVERS"



'ST70 STEREO'

Anything else is a compromise

WITH THE SUPERB RANGE OF PRODUCTS NOW AVAILABLE FROM

'*Lumley Reference*'

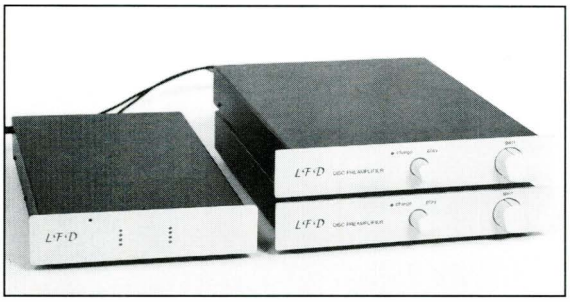
YOU NEED COMPROMISE NO FURTHER

CALL OR WRITE FOR MORE DETAILS & DEALERS LIST:

REFERENCE International

PINERIDGE SANDY CROSS, HEATHFIELD, EAST SUSSEX
TELEPHONE (0435) 868004
FACSIMILE (0435) 864481

LFD Audio



LFD

an affordable high-end alternative for audiophiles worldwide.

"It's a diamond necklace in a world of plastic – but without a Tiffany price tag."
Eric Baithwaite, HiFi World, Sept 1992.

"Clearly then, these LFD components are of outstanding quality." **Jimmy Hughes, Audiophile, Jan 1993.**

Airoflex 1 loudspeaker cable,
★★★★★ Recommended. **What HiFi? Feb 1994.**

Spiro Link 1, Spiro Link 2 & Digi Copper

Please contact LFD Audio for further information on our complete range of: AMPLIFIERS, INTERCONNECTS, LOUDSPEAKER CABLES AND MAINS ACCESSORIES.

LFD Audio

MICRON HOUSE • 23 COPPINS ROAD • CLACTON-ON-SEA • ESSEX CO15 3HP • TELEPHONE (0255) 422533 • FACSIMILE (0255) 221069

CREDIT CARDS WELCOME

Access VISA

24HR DELIVERY SERVICE

CONFIDENTIAL HI FI FOR YOUR EARS ONLY

(071) 233 7225

OPEN 10 - 6pm MON-SAT

THURS 10 - 9pm

WORLDWIDE TAX FREE EXPORT

SALE

AMPLIFIERS

	ITEM/TYPE	NORMAL PRICE	OUR PRICE
PROTON			
AA1150	POWER	449	279
MUSICAL FIDELITY			
RAINBOW	INT-AMP	299	199
TEMPEST	INT-AMP	259	219
ALCHEMIST			
BRACI	PHONO-STAGE	495	339
FREYA	PRE-AMP	1020	699
ODIN	POWER	1020	699
GENESIS	MONO-POWER	1525	999
KRAKEN	INT-AMP	399	299
KRAKEN	PRE-AMP	395	295
KRAKEN	POWER	380	280
UPGRAD	TRANSFORMER	45	35
ORELLE			
SC101 + SP101	PRE+POWER	849	499
DENON			
PMA450	INT-AMP	249	199
YAMAHA			
AX570	INT-AMP	289	249
MARANTZ			
PM32	INT-AMP	139	109
PM44SE	INT-AMP	199	189
PM40SE	INT-AMP	249	169
PM52	INT-AMP	209	149
KENWOOD			
KA3020	INT-AMP	169	139
PIONEER			
A400	INT-AMP	279	219
A400X	INT-AMP	299	249
A300X	INT-AMP	229	209
SONY			
TAF211	INT-AMP	149	119
TAF242	INT-AMP	199	159
TAF442	INT-AMP	249	215
TAF542	INT-AMP	299	249
NAKAMICHI			
AMP 2	INT-AMP	379	279
Albury			
PP1	AMP	429	329
AP3	PASSIVE PRE-AMP	299	219
S508	STEREO POWER AMP	499	399
NAD			
1000 PRE-AMP	PRE-AMP	329	229
902 POWER AMP	POWER	209	179
ROTEL MICHI			
RCH10	POWER	795	595
RHQ10	PHONO-STAGE	995	795
RHB10	PRE-AMP	1550	1250
TOTAL SYSTEM		3340	2499

COMPACT DISC PLAYERS

DELTEC			
LITTLE BIT	DAC	399	199
MARANTZ			
CD72IISE	CD	599	429
CD52MKII	CD	229	179
ORELLE			
CD260	CD	999	749
CD160	CD	749	629
MICROMEGA			
LEADER	CD	895	425
LOGIC	CD	479	275
YAMAHA			
CDX870	CD	329	279
CDX860	CD	299	199
SONY			
CDPX229	CD	329	249
CDPX303ES	CD	549	449
CDP333ES	CD	-	349
CDP311	CD	169	139
CDP411	CD	199	169
PHILIPS			
CD930	CD	199	159
CD950	CD	399	299
CD935	5 DISC	229	189
TECHNICS			
SLPS740	CD	249	219
SLPG440	CD	169	149
SLPG340	CD	149	119
KENWOOD			
DP7050	CD	349	299
PIONEER			
PDS701	CD	329	279
AIWA			
XC950	CD	199	169

CASSETTE DECKS

DENON			
DRW650		219	179
DRM510		159	129
DRM710		259	189
HARMON KARDON			
TD4600	DOLBY S	799	349
KENWOOD			
KX3050		169	139
KX7050		329	259
YAMAHA			
KX260		159	129
KX360		199	159
KXW262	TWIN DECK	199	179
SONY			
TCK511	DOLBY S	279	239
TCK611	DOLBY S	329	279
TCW435	TWIN DECK	169	139
TCW635S	TN DK+DOLBY S	279	239
AIWA			
ADF810		229	189
ADF410		119	99
XKS9000	DOLBY S	699	549

TUNERS

AIWA			
XT950		149	119
KENWOOD			
KT2050L		149	119
KT3050L	RDS	179	149
TECHNICS			
STG70	CLASS AA	249	199
STG630		229	179
ST610		129	109
PIONEER			
F550	RDS	249	179
PHILIPS			
FT930		149	99
CARVER			
TX10		295	129
SONY			
STS211		129	109
STS311	RDS	199	179
STS505	RDS	249	229
STS511			

SPEAKERS

MORDAUNT SHORT			
CLASSIC 20	WALNUT	449	249
CLASSIC40	WALNUT	649	429
SD ACCOUSTICS			
SD3	WALNUT	399	249
RUARK			
BROADSWORD	BLACKASH	849	649
CELESTION			
SL12		629	249
PROAC			
STUDIO TOWER		2500	1299
CASTLE			
YORK		349	299
DURHAM		229	179
SPICA			
TC50		649	349
ALPHASON			
ORPHEUS		1069	449
AUDIO PLAN			
KONTAPLAN		1065	449
JBL			
TLX12		179	129
L20T		229	149
SNELL			
J111		769	499

DCC from Philips and DAT from Sony, Music Systems from Aiwa, JVC, Sony, Kenwood, Pioneer, Technics, Yamaha, Denon and a new range of Grundig Audio Products are available on very special prices. A complete list is provided on request. Every produc is supplied with a full one year warranty. *Some of the items on sale are ex-display models.*

HI FI CONFIDENTIAL LTD

34 BUCKINGHAM PALACE ROAD, LONDON SW1W 0RE. TEL: (071) 233 0774. FAX: (071) 233 7226

FREE! FREE! FREE! FREE! FREE! FREE! FREE! FREE! FREE!

Readers Classified

LUXMAN L507 AMP (recently serviced) £75, Lentek Entre moving coil head-amp £40, Sound Organisation T/T table £40, 10" Z speaker stands £30, Van den Hul Clearwater speaker cable 2x5m £20. Offers. William ☎ 071-436 1553 (day) ☎ 081-994 0408 (eve).

WANTED TARGET HJ 12" speaker stands, wall shelf, 4-tier equipment stand or similar. William ☎ 071-436 1553 (day) ☎ 081-994 0408 (eve).

DECCA LONDON, export £90, Linn K18 new £100, ATOC5 £60, Loral MC81 new £55, MC88E 30 GOL dring epic £10, Meridian MCD £100, Goodmans SCD100 (Nakamichi)£90. Kent ☎ (0474) 704382

PIONEER F757 tuner JGC, boxed £85 ono. ☎ (0934) 813666, after 6pm.

QUAD IIv2 power amps Quad 22 Quad FM tuner £250, Gerrard 301 £80 SME 3009 £50. Manchester ☎ 061-2267021

GARRARD 301 African mahogany heavy plinth SME 3009 Mk3, V15 cart,stunning. ☎ (0203) 679165

MISSION 753 loudspeakers (superb condition) rosewood finish. £500 no offers. Linn K20 speaker cable 4x2.7m runs terminated with banana plugs for bi-wiring £50. Swansea ☎ (0269) 850022

WANTED Pioneer 1750 Laserdisc player. Swop for Rotel RCD-965BX CD player and Arcam Alpha 3 amplifier. Both very good condition. John, Hants ☎ (0256) 20608

LINN ISOBARIKS DMS & stands walnut finish, £700 ono, or swap with cash for SBLs 9150. Naim 32-5 pre-amp fitted with both mm/mc boards £225 ono. ☎ 071-284 2122

THORENS TDI 24 with SME arm and Shure V15 catridge, offers. Yorks ☎ (0748) 825419

NAIM 01 tuner £450. 72-Hicap £680 Nap 250 £675. W Sussex ☎ (0903) 756582

LINN LP12, Ittok LV1, Isaka £1,000 ono. Pioneer A400 £150, Tannoy J95 £300, Michell Iso £250. ☎ 081-743 1334

WANTED: AUDIO ALCHEMY PS2 and DTI. Must be mint condition. Richard, S london ☎ 081-689 2692 (Day)

NAKAMICHI DRAGON cassette deck boxed VGC £2,350. New accept £999 ono. ☎ 081-981 7896

MARANTZ DD82 DCC used only once in original packing £250. Dunstable ☎ (0582) 867463

MICHELL SYNCRO RB300, Ausio Technica AT-OC 5, very little use, boxed, instructions, £425 ono. Milton Keynes ☎ (0908) 696869

CELESTION SL6 speakers with high quality, high mass stands and cable £200, no offers. Also,wanted Linn Keildh with dedicated stands in walnut, mint condition. Nottingham ☎ (0602) 463693 (evenings)

MUSICAL FIDELITY MA50 £425 Naim NAC12 preamp £70, 12 metres Ixos bi-wired speakers cable £28 target turntable shelf £25. Hereford ☎ (0432) 830599

WANTED FURUKAWA analogue interconnects, unbalanced preferred. Surrey eves ☎ 081-689 6855

REVOX B160 FM tuner £295. FM300A power amplifier £295. ☎ (0483) 69814

WHARFEDALE 505 II speakers with Heybrook stands £120, Cambridge P40 amp £80, both excell. Cleveland ☎ (0429) 235706

PIONEER PL-2470 turntable, F-2570L tuner, A-2370 amplifier, GR2370 graphic equaliser, CT-2370WR double cassette deck, PD-2970M compact disc player, 4 speakers (inc surround sound) 2 years old, exc cond, £750. Clwyd ☎ (0244) 544403

AT-OC 9 £110, RB300 £90, Hitachi D2200M, 3-head, 2 capstan, auto calibrate, £130. ☎ 081-741 2813

AUDIO INNOVATIONS Series 500 amplifier, pristine conition, boxed, £495 Sony DAT-DTC 690, excellent condition 2mths old £295, Sony DAT-TD750, VGC £195. Derby ☎ (0332) 271088

TANNOY original unchanged VGC 15in DC Moniter Gold Lancasters, Roksan DP1 transport, ROK DA1 DAC, ROK DS1 power supply, 12 months old, hardly used. Highest offer takes equipment. Beckenham ☎ 081-658 8765

Sony MZ1 MD recorder as new, boxed £280. Gwent ☎ (0633) 865255

WANTED: ARCAM Alpha CD transport 170.2 or 170.3 must be mint. Leicester ☎ (0533) 350494

TECHNICS amplifier SUA700 RC £175 45RIPC long warranty, replaced by AV amp, well reviewed mint condition. Swansea ☎ (0792) 206948

AUDIOLAB 8000P preamp and 8000C power amp, only 6 months old, in mint condition, 2 year BADA guarantee, cost £1,100, will accept £750. Nottingham ☎ (0602) 878883

LINN ISOBARIKS outboard crossover panel stands 4 years old £1,500 Aktiv £600. Middlesex ☎ (0895) 444911

DENON DCD1520 CD player, excellent condition, boxed £175 ono. London ☎ 071-351 2383

MUSICAL FIDELITY MC4 loudspeakers, black ash finish, excellent condition with Target HS20 stands £300 ono. Ayrshire ☎ (0475) 675996

NAIM 42.5 pre amp VGC £120. QED speaker stands £10. Norfolk ☎ (0379) 853580

ACOUSTIC ENERGY AE1 speakers, with AE stands, cost over £1,000, bargain at only £499 (no offers) can deliver. Cornwall ☎ (0566) 782237

TARGET AUDIO stand 5 tier £60 ono. WANTD: Linn LK100 power amp K400 cable. Bedfordshire ☎ (0767) 312507

CYRUS 1 series 8 amp, boxed as new £200, Audioquest Quartz 1 metre £70 and 0.5 metre £50. Huddersfield ☎ (0484) 649074

WANTED: Stereo DBX decoder type II for tapes, eg model 20 and Toshiba adres unit model AD-2T. Both working or faulty but cheap. Call Drew, Cheshire ☎ (0270) 764624 after 6pm

REGA PLANAR II and Superbias cartridge £100. Denon TU260L £60, Target 5 Tier EQT stand £60. Surrey ☎ (0372) 742659

SONY ST-S370 RDS tuner C/W aerial hardly used £85, no offers. Coventry ☎ (0203) 464937

SYSTEMDEK IIX/E 900AP with Moth arm Goldring 1012 cartridge (£550) £275; Royd Apex loudspeakers (£485) £230. Bucks ☎ (0296) 713311

MUSICAL FIDELITY A1 amp, £150 Linn Helix speakers and matching stands, £150. Norwich ☎ (0603) 35547

EPOS ES11 speakers stands £440. Cheshire ☎ (0625) 420432

ARCAM CD BB3 DAC Audiolab 8000A Thorens TD160 Rega R200 £600 will split ☎ (0256) 389402

PIONEER A-300 amp, as new, boxed £160. John, Manchester ☎ 061-248 8056

NAIM NAT 01, NAC 52 pre amp, NAXO 6X NAP 135, Linn Isobarik. Half price-ish. Sussex ☎ (0323) 870160

TANNOY MERCURY M20 speakers £55 ono. Dual 505 turntable £45. ☎ (0892)835907

KEF CR200s flush fitting wall mounts, as new, never used, cost £360, £220 ono. Somerset ☎ (0963) 350844

WANTED: MAGNEPLANERS KEF1053, Quad 63, Yamaha NS1000, Stax ELSF81, Linn Isobarik, Naim SBL, Stax phones, Bandor and Jordan drivers, Bose AM5, ARMS 774 Mission. Cleveland ☎ (0642) 559543

YAMAHA DSP A2070 AV amplifier, new £800 Kenwood centre speaker and CM5ES surround speakers £100 for both, must collect. Bath ☎ (0225) 337129

LINN KEILIDHS, black ash, fast and detailed, 7 months old, VGC, only £450 ovno. John, West Sussex ☎ (0444) 230010

ROGERS CADET 3 valve amp,complete, but not working. Offers to Dominic, Blackheath ☎ 081-852 7553

AUDIOLAB 8000C and 8000P, Quad FM4, Denon DRM24HX cassette. As new, boxed £1,200 ovno. Essex ☎ (0268) 695223

QUAD 606 £380, Musical Fidelity 3B preamp £250, Meridian 263 D/A converter £300 (as new). Yamaha DSP-E1000 pro-logic processor £450 (as new). S Ellerton EC1 ☎ 071-253 1845 (after 7pm)

ROTEL RCD 965BX CD player. Top rated, best buy. As nmew £195 Torquay ☎ (0803) 606220

MERIDIAN 263DAC, superb sound, Delta Sigma chip, 16 months old with 3 year guarantee, immaculate, £295. Musical Fidelity 3B pre-amp & P170 power-amp (cost £1,000) bargain at £350. Reading ☎ (0734) 412221

ROKSAN DA1 DAC brand new £280. Marantz PM40SE amp £100 or both for £350. N'hants ☎ (0604) 712156

NAIM NAP180 £600 NAC42.5 £120 HICAP £280 (old style) Ruark Templars (Burr) £300, excellent condition, boxed. Hereford ☎ (0432) 268484

SOUND ORGANISATION 3 Tier Table £30. Manchester ☎ 061-740 9821

WANTED PIONEER CLD-1750 laser disc player. Edinburgh ☎ 031-664 1358

Place an advert in *Hi-Fi Choice* — FREE!

That's right, you can sell your hi-fi equipment in the *Choice* Reader Classified pages absolutely free. All you have to do is write your 'sales' or 'wants' advert in block capitals on the coupon below, and send it to us at the address shown. The advert will appear for one issue only and must be no more than 30 words long, including your phone number. Remember to include your own name, address and telephone number. Reader Classifieds are for the use of private individuals only and adverts from dealers will not be accepted. All Reader Classified adverts will be printed subject to available space, and Dennis Publishing Ltd accepts no liability for the accuracy of the information contained therein, nor any consequence arising from it, nor for any minor typographical errors. We reserve the right to amend or refuse adverts at the Editor's discretion.

Name.....

Address.....

.....

.....Tel no.....

Please return the completed coupon to: *Hi-Fi Choice*, Reader Classifieds, 19 Bolsover Street, London W1P 7HJ.

HI-FI CHOICE SPECIAL OFFERS

Choice accessories

This month we are pleased to be able to offer a selection of cables and interconnects to improve the sound of your system. Although some people consider cables to be a mere accessory, in fact without them you'd get no sound at all from your system! By choosing the very best possible cables you can make the most of the rest of the separates that make up your hi-fi system.

Speaker Cables

AudioQuest F-14

No, it's not a fighter plane, its an affordable flat cable that is ideal for audio visual applications where rear channel speaker cable has to be run under carpets or along skirting boards. Don't let the low price tag fool you, though, it's still a vast improvement over bell wire or other non-specialist alternatives. Earning a Recommended tag back in our August issue, AudioQuest F-14, at a mere 2mm thick, could well be the answer to those tricky cabling dilemmas. Available in white.

Order ref	Length	Price
ZL14WR/1	1 metre	£28.90
ZL14WR/2	2 metre	£32.80
ZL14WR/3	3 metre	£36.70
ZL14WR/4	4 metre	£40.60
ZL14WR/5	5 metre	£44.50

If you require longer lengths, add an additional £3.90 per metre

AudioQuest Type 4

This corking cable uses four solid OFHC conductors wound in a spiralled Hyperlitz configuration. You can either pair up conductors to form a superior single run of cable or the cable can be sent to you pre-terminated for bi-wiring, enabling you to enjoy all the advantages of this method of connection without the mass of spaghetti that normally threatens to take over the living room. A very cost effective up-grade.

Order Ref: ZLT43PR - 3 Metre length £57.00
Order Ref: ZLT45PR - 5 Metre length £75.00

AudioQuest Indigo

The obvious next step up from Type 4, Indigo uses ten solid conductors, again in a Hyperlitz array and finished in a tasteful blue satin jacket. When the five red or black conductors are connected together this gives a 2.6 mm2 signal area. Not the cheapest cable on the market, but nonetheless highly recommended for those wanting to pull the very best from their systems.

Order Ref: ZL13PR - 3 metre length £75.00
Order Ref: ZL15PR - 5 metre length £105.00







AudioQuest Crystal

Crystal uses twelve solid conductors, spiralled together in a Hyperlitz array under a slate blue satin jacket. The cable is rather unusual in that it contains a mix of conductors, six conductors are 0.65 mm2 PHFC copper and six are 0.52 mm2 FPC copper. In normal use Crystal is a 3.51 mm2 cable. The FPC copper acts like a bypass, allowing most of the high frequency benefits of this superior material. The less expensive OFHC copper provides bulk so Crystal can provide a powerful full range sound. Together the OFHC and FPC allow Crystal to have extraordinary performance at a reasonable price. Crystal is also an extremely effective single biwire cable, which is best achieved by using the six OFHC conductors for the bass and the six superb FPC conductors for the treble.

Order Ref: ZLCY3SBW - 3 metre £144.00
Order Ref: ZLCY5SBW - 5 metre £200.00

Interconnect cables

Although you could connect your equipment together with a damp piece of string, the chances are the results would be rather disappointing. What is often glossed over is that there are more than one type of interconnect cable on the market and that different cables are needed for different tasks. The first use for interconnects is to enable you to link line level signals between units, for example to wire the analogue output of your CD player to your amplifier, or to use between pre-amp and amplifier. We offer three choices of cable intended for this purpose, AudioQuest Turquoise, Ruby and

Quartz, so there should be one there to suit your budget.

AudioQuest Turquoise
Our cheapest interconnect uses four solid OFHC copper conductors in a novel symmetrical Hyperlitz arrangement. Two of these conductors are insulated and together become the positive conductor. The other two are uninsulated and make contact with the 100% coverage shield, together they become the negative conductor.
Order Ref: ZIUP1 - 1 metre £34.95
Order Ref: ZIUP2 - 2 metre £40.95

AudioQuest Ruby
Ruby is one of the most popular cables in the AudioQuest range, and it's easy to see why. A fully balanced cable featuring Hyperlitz construction. Ruby uses four solid FPC copper conductors, all polypropylene insulated. Two together carry the positive signal and two carry the negative. Excellent value for a high performance cable.
Order Ref: ZIRP1 - 1 metre £69.95

AudioQuest Quartz
Quartz uses the same Hyperlitz balanced construction as Ruby, but with FPC-6 copper (99% purity) . The RCA plug is resistance welded to Quartz in a process which actually commingles the molecules of the cable and plug into an alloy. The plug uses an unusual patented design which eliminates extra internal contacts, ensures a large, self-wiping (cleaning) contact area and provides extraordinary strain-relief. The plug is not difficult to push on, but it does make the best contact.
Order Ref: ZIQP1 - 1 metre £99.95

Optical cables

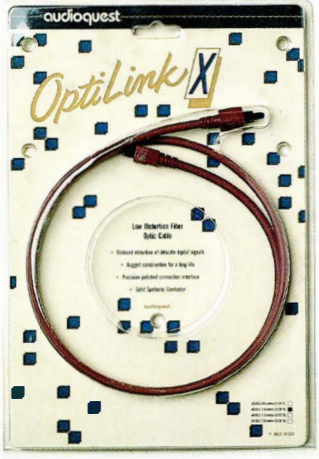
Many CD players and transports feature a fibre optic digital output. This allows you to send the digital signal, in the form of light, to a separate digital-to-analogue converter.
The quality of the fibre optic cable used can make nearly as much difference as your choice of CD player. A poor fibre optic cable can totally destroy the value of a separate D/A converter. OptiLink X and OptiLink Z will make sure you get the performance you paid for. Available in 1 metre lengths.

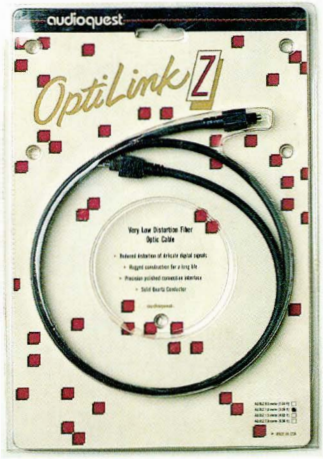
AudioQuest OptiLink X™
Order ref: ZOXT1-OptiLink X (1 metre, Toslink) £49.95















AudioQuest OptiLink Z™
Order ref: ZOZT1-OptiLink Z (1 metre, Toslink) £99.95

Digital cables

The characteristics a cable needs to carry a digital signal are very different from those required of an analogue cable and if you want to get the very best from your system then you need a cable designed to do the job. Video cables, which are designed for high frequency signals in the first place, are ideal for carrying digital signals, and they can also be used to give a boost to your A/V system.

Video X is available in 1, 2 and 5m lengths while for those of you with a little more money to spend, we can also supply the superior Video Z, one of the very few digital interconnects to earn a coveted Best Buy rating in our recent market survey.
AudioQuest Video X
Order ref: ZIXP1
(1 metre) £29.95
Order ref: ZIXP2
(2 metre) £36.95
Order ref: ZIXP5
(5 metre) £57.95
AudioQuest Video Z
Order ref: ZIZP1
(1 metre length) £49.95

If you have any technical queries regarding the cables, please call Alisdair Patrick on 0223 440964.

Hi-Fi Choice Sweatshirts

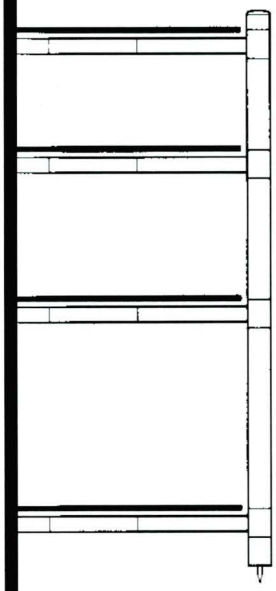
Sure to be as popular in '94, the Hi-Fi Choice sweatshirt is still great value at just £15.00. Sporting the Hi-Fi Choice logo in white and red on navy blue — it's an inimitable accessory that will certainly attract admiring glances.
Order ref: JE22A/L (Large)
Order ref: JE22A/XL (Extra Large)
Price: £15.00



AudioQuest CD Feet
Improve the performance of your CD player or any other vibration sensitive equipment. Sorbothane® CD feet absorb energy, increasing both damping and isolation. Each foot should not support more than 4 pounds (2kg) or about 16 pounds for a set of four.
Order ref: ZAFC4
Price: £29.95

AudioQuest Big Feet
Same as the above only bigger, to support heavier equipment.
Order ref: ZAFB4
Price: £47.95

Aria. A new way to look at hi-fi support.

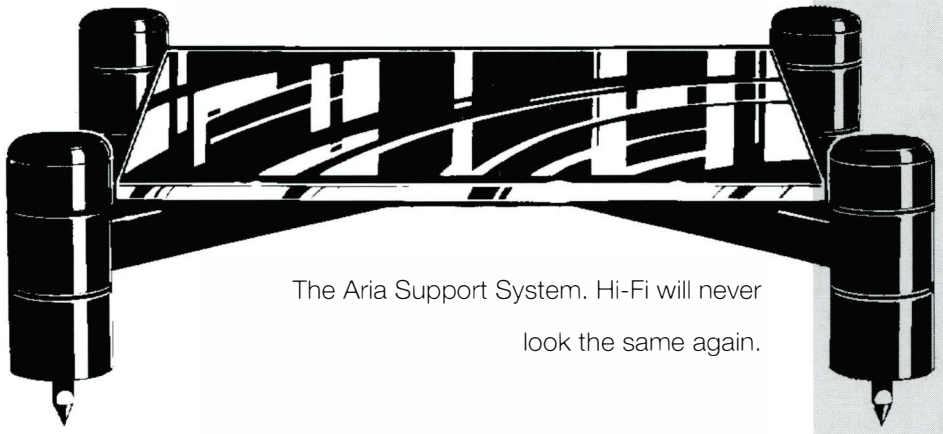


Introducing the Aria Modular Hi-Fi Support System. It can change the way you look at your components.

Build up separate vertical shelves. Or link units side by side. Either way, Aria lets you vary shelf heights to suit your components.

Start with a Base Pack and go from there. There's no limit to the number of ways you can build it up.

Not only does Aria give you more flexibility than any other hi-fi system, it also provides sound deadening and decoupling benefits. With black tubular steel legs. Grey tinted glass or black MDF shelves. And adjustable carpet-piercing spikes.



The Aria Support System. Hi-Fi will never look the same again.

I want a good look at the Aria system. Please send me a brochure.

Name Address

Post Code

APOLLO HI-FI FURNITURE

Our components improve yours

Zenith Crown Ltd., Tipton Road, Dudley, West Midlands, DY1 4SQ Tel: 021 520 5070/1432



AudioQuest LaserGuide
The most effective optical disc treatment available. Using LaserGuide improves virtually all aspects of CD and LaserDisc performance. CD's actually sound smoother, clearer and more dynamic.
Order ref: ZBLGB
Price: £14.95

Hi-Fi Choice CD Rack
Available as single units, the interlocking Choice CD rack is only £1.25 — a small price to pay for keeping your collection in order.
Order ref: JE36A
Price: £1.25

4mm Banana Plugs - Gold Plated
Top quality solderless gold plated banana plugs for use with speaker cables. Simply push the speaker cable into the body of the plug and tighten for a perfect connection. Sold in packs of four.
Order ref: ZCBG
Price: £8.95

CD Jewel Case (Five Pack)
Replace broken CD jewel cases and ensure your discs are properly protected.
Order ref: JE33A
Price: £5.00

Back Issues

Back issues are priced at £4.00 each (UK). £6.95 each (Overseas) inc postage and packing.

December 1993 - Issue 125
STACK SYSTEMS - 6 tested plus Buyer's Guide. 18 pages of products tested and rated.
Order Ref: AE25B

January 1994 - Issue 126
SPEAKERS - four floorstanding loudspeakers reviewed. Plus a FREE 16 page guide to buying blank audio cassettes.
Order Ref: AE26B

March 1994 - Issue 128
CD PLAYERS for under £190
Subwoofers – 8 on test
Your chance to have your Hi-Fi checked by an expert
Order ref: AE28B

Nagaoka Anti-Static Record Sleeves No 102
Packs of 50 plastic record sleeves that can be used on their own or inserted into an existing card or paper sleeve. The sleeves eliminate static and keep records dust free.
Order ref: JE15A
Price: £6.99



Priority Ordering

Use the Dennis Direct orderline - **0789 490 215** or just enter your details on the coupon and fax it to us on 0789 490 878 if you're ordering with a credit card or send with the correct payment to DENNIS DIRECT, PO BOX 2505, ALCESTER B50 4JU.
Prices shown include VAT and fulfilment in the UK. Please add postage as detailed at the bottom of this form. Be aware that all items on offer are subject to availability and a maximum of 28 days should be allowed for delivery.

OVERSEAS ORDERS
Please add £3.50 to your order total to cover the additional postage. Please note that we can only accept Visa/ MasterCard and Eurocheques in £s sterling and sterling cheques drawn on a London bank.

Important: To prevent any delay with processing your order, please enter the correct codes clearly! If necessary, please use a separate sheet.

Order Ref	Description	Quantity	Price
			£
			£
			£
			£
			£
			£
			£

	Order total:	£
For UK add £2.00 per order for postage	Order total:	£
For Europe add £10.00 per order for postage	Order total:	£
For Rest of World add £12.00 per order for postage	Order total:	£

☐ I enclose a cheque made payable to Dennis Direct for £.....

☐ Please charge my ☐ Visa ☐ MasterCard(Access) for £.....

Credit Card Number.....

Expiry Date..... Signature.....

Mr/Mrs/Ms Surname.....Initials.....

Address.....

.....

.....

.....Postcode.....

Daytime telephone number.....

☐ Please send me a VAT receipt

☐ The above information may be added to our mailing list. Please tick the box if you would prefer not to receive details of special offers. Dennis Direct is a division of Dennis Publishing Ltd.

05-94-08

PIONEER **BEST PRICES GUARANTEED** KENWOOD

TANNOY MISSION PANASONIC TEAC AKAI PHILIPS DENON YAMAHA MARANTZ JVC SONY TECHNICS

LICENSED CREDIT BROKERS ASK FOR DETAILS



LICENSED CREDIT BROKERS ASK FOR DETAILS

ALL BILL HUTCHINSON HI-FI SHOPS ARE DEDICATED AUDIO VISUAL CENTRES

ALL BRANCHES ARE MAJOR LASER DISC STOCKISTS

PIONEER REFERENCE POINT

Bill Hutchinson

Hi-Fi • CD • Audio Visual Centre

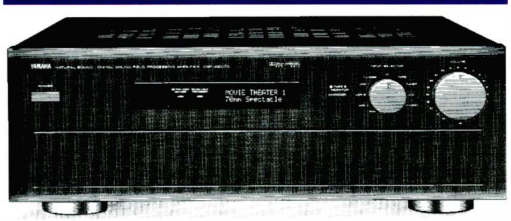
THE PROFESSIONALS

When you purchase from Bill Hutchinson you're buying the best names in Hi-Fi from the best name for Hi-Fi.
Our Product Guarantee and Pricing Policy ensure you obtain an excellent deal.
My staff and I look forward to being of service to you.

Bill



HEAR YAMAHA'S EUROPEAN AWARD WINNING CINEMA DSP AMPLIFIER



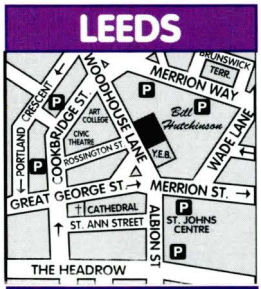
MARANTZ CD52 MK11SE - CD PLAYER	- AWARD WINNER '93	✓
MARANTZ PM44SE - AMPLIFIER	- AWARD WINNER '93	✓
MISSION 751 - SPEAKERS	- AWARD WINNER '93	✓
SONY TCK-611S - CASSETTTE DECK	- AWARD WINNER '93	✓
SONY STS 311 - TUNER	- AWARD WINNER '93	✓
AIWA NSX-360 - MINI SYSTEM	- AWARD WINNER '93	✓
TECHNICS SC-CH950 - PRO-LOGIC SYSTEM	- AWARD WINNER '93	✓

PRICE PLEDGE

Should you find any local dealer offering a better price for goods currently in stock at Bill Hutchinson and the alternative quoting retailer, we will better that deal.

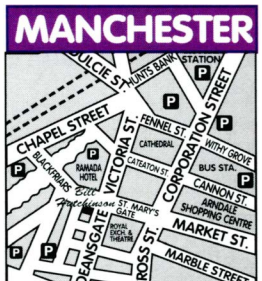
THE LARGEST SELECTION OF QUALITY HI-FI AND AUDIO VISUAL SYSTEMS

LEEDS



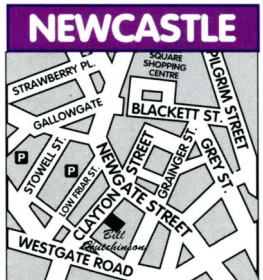
26-28 WOODHOUSE LANE
0532-427777
OPEN MONDAY - SATURDAY
9.30AM - 6.00PM
THURSDAY LATE OPENING

MANCHESTER



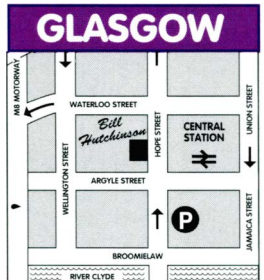
50-52 DEANSGATE
061-832 1600
OPEN MONDAY - SATURDAY
9.30AM - 6.00PM
THURSDAY LATE OPENING

NEWCASTLE



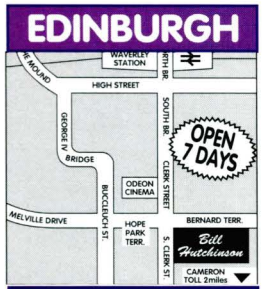
87A CLAYTON STREET
091-230 3600
OPEN MONDAY - SATURDAY
9.30AM - 5.30PM
THURSDAY LATE OPENING

GLASGOW



43 HOPE STREET
041-248 2857
OPEN MONDAY - SATURDAY
9.30AM - 6.00PM
THURSDAY LATE OPENING

EDINBURGH



43 SOUTH CLERK STREET
031-667 2877
MON - SAT 9.30AM - 6.00PM
SUNDAY 11.00AM - 5.00PM
THURSDAY LATE OPENING

ROTEL **ALL WITH 2 YEAR GUARANTEE** AIWA

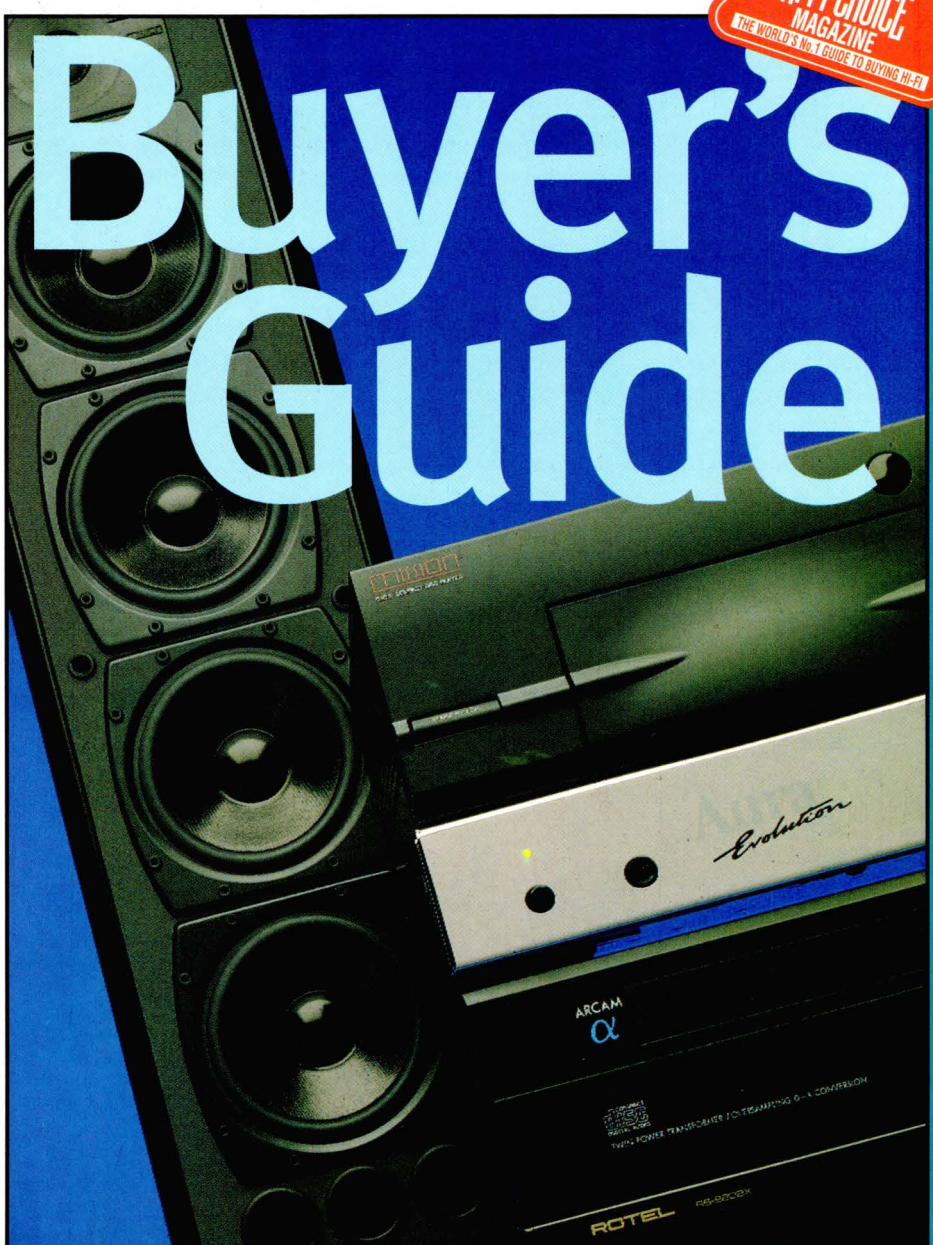
The most comprehensive hi-fi listing in the known universe

HI-FI CHOICE

THE FINEST HI-FI MAGAZINE IN THE WORLD

BEST BUY HI-FI CHOICE MAGAZINE
THE WORLD'S No.1 GUIDE TO BUYING HI-FI

Welcome to the *Hi-Fi Choice Buyer's Guide*, the UK's biggest and best guide to choosing hi-fi. Over 2,500 items are listed, with up-to-date prices and specifications. Part two comprises the unique review-based *Directory*, containing our views on over 700 components that have been tested and rated by the *Hi-Fi Choice* experts.

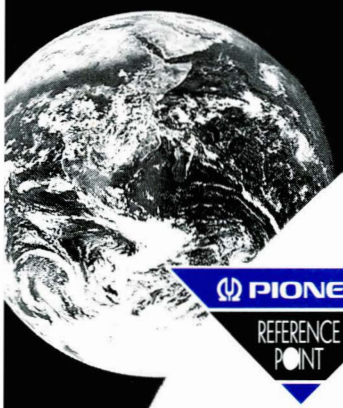


Index

PRICE GUIDE	PAGE 89
YOUR AT-A-GLANCE REFERENCE TO HI-FI PRICES, TECHNICAL SPECIFICATIONS AND OPTIONS. OVER 2,500 ITEMS LISTED! IF IT'S HOT AND HI-FI, IT'S HERE.	
PRODUCT CATEGORIES	
AMPLIFIERS	PAGE 89
CASSETTE DECKS	PAGE 95
CD PLAYERS, TRANSPORTS AND DACS	PAGE 97
DIGITAL RECORDERS	PAGE 100
HEADPHONES	PAGE 100
LOUDSPEAKERS	PAGE 106
RECEIVERS	PAGE 110
SYSTEMS	PAGE 110
TUNERS	PAGE 115
TURNTABLES, ARMS AND CARTRIDGES	PAGE 117
THE DIRECTORY	PAGE 123

THE ORIGINAL, THE MOST AUTHORITATIVE, THE BEST. OUR UNIQUE REVIEW-BASED GUIDE TO OVER 700 PRODUCTS TESTED IN *HI-FI CHOICE*. BEWARE CHEAP IMITATIONS...

The Forefront of Technology



PIONEER REFERENCE POINT



Bill Hutchinson INNOVATION AWARD

Impresso SERIES

Model No: **Impresso 3**

- Power output of 35 Watts (DIN, 1kHz, 1%, 8 ohms) per channel.
- Stable Platter Mechanism
- CD-Deck Synchro
- Auto BLE
- Horizontal loading cassette deck
- Dolby B/C/HX-Pro noise reduction
- Music power speakers

Considerable time and effort has gone into the creation of the Bill Hutchinson Innovation Award Scheme, drawing from more than two decades of experience and expertise.

The Innovation Award is designed to assist you in identifying state of the art equipment that matches your expectations whilst being of a build quality that ensures many years of enjoyment.

A list of priorities have been drawn up in order to establish the framework of the Award Scheme. The main priorities are, sound, value, construction, design, style and originality.

The choice of dealer should be given the same care and attention as is given to your choice of equipment, so that you may receive the kind of quality service and advice that compliments equipment of the same standard. The type of service you ultimately receive will reflect on your overall enjoyment of the product. A long-term association with a professional dealer has real benefits and will serve as your personal contact for information and advice on the Manufacturers latest Innovations

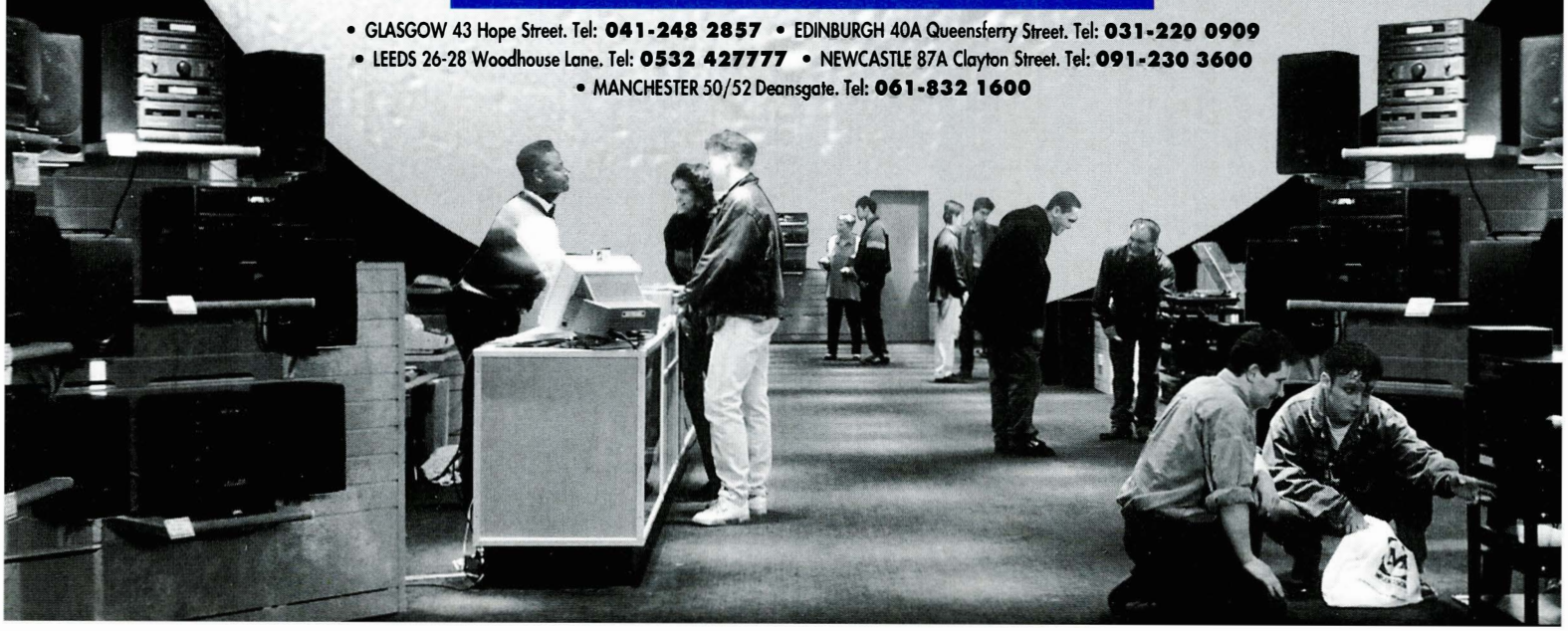
If it is not possible to visit a Bill Hutchinson Hi-Fi AV Centre, simply contact the Manufacturer for details of your nearest authorised stockist.

PIONEER FREEPHONE 0800 480480

Bill Hutchinson

Hi-Fi • CD • Audio Visual Centre

- GLASGOW 43 Hope Street. Tel: **041-248 2857**
- EDINBURGH 40A Queensferry Street. Tel: **031-220 0909**
- LEEDS 26-28 Woodhouse Lane. Tel: **0532 427777**
- NEWCASTLE 87A Clayton Street. Tel: **091-230 3600**
- MANCHESTER 50/52 Deansgate. Tel: **061-832 1600**





Key to amplifiers
Price - typical retail, to nearest pound.
Power - output power in watts, per channel, RMS.
Inputs - MM/MC - phono moving coil and moving magnet, L - line (CD, aux etc), T - tape.
A/V - includes Dolby Surround or Pro Logic decoder and amplification.

Type: Int - integrated, Pre - preamplifier, Pwr - power amplifier.
Headphone - Y - yes, N - no.
Remote - Y - yes, N - no.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	A/V	Power	Inputs	Headphones	Remote	Size	Special
AMPLIFIERS									
Aiwa XA-003	140	Int	N	40	MM,2L,1T	Y	N	-	2 speaker circuits
Aiwa XA-950	230	Int	N	100	MM/MC,2L,2T	Y	Y	-	2 speaker circuits
Albarry AP3	300	Pre	N	-	3L,1T	N	N	-	
Albarry AP4	350	Pre	N	-	MM,4L,1T	N	N	-	
Albarry PPi	400	Int	N	45	-	N	N	-	
Albarry PP1	430	Int	N	45	MM,4L,2T	N	N	-	
Albarry PPI Audiophile	500	Int	N	45	MM,MC,4L,1T	N	N	-	
Albarry S508	500	Pwr	-	50	-	-	-	-	
Albarry M408	850	Pwr	-	50	-	-	-	-	2x monoblocks
Albarry M100B	1100	Pwr	-	100	-	-	-	-	2x monoblocks
Albarry AP2	1500	Pre	N	-	MM/MC,4L,1T	N	N	-	
Alchemist Kraken/pre Anniv	POA	Pre		N	MM,3L,2T	N	N	25,9,25	Stainless steel/gold finish
Alchemist Kraken/Pwr Anniv	POA	Pwr	-	60	-	N	N	32,9,25	Stainless steel/gold finish
Alchemist Kraken/Pre	380	Pwr	-	60	-	-	-	32,9,25	Bridgable
Alchemist Kraken/mono	380	Pwr	N	60	-	N	N	32,9,25	
Alchemist Kraken	395	Pre	N	-	5L,1T	N	N	25,9,25	Bridging circuit built-in
Alchemist Kraken/Pwr	399	Int	N	60	3L,2T	N	N	32,9,25	MM £45 option
Alchemist Kraken Anniv	499	Int	N	60	MM,3L,2T	N	N	25,9,25	Stainless steel/gold finish
Alchemist Forseti	899	Int	N	100	4L,2T	N	N	47,10,39	
Alchemist Freya	1020	Pre	N	-	6L,1T	N	N	31,7,30	
Alchemist Odin	1020	Pwr	-	80	-	-	-	31,14,30	Stereo
Alchemist Genesis	1525	Pwr	-	110	-	-	-	25,14,30	Pair monoblocks
AMC AV81 Control	289	Pre	Y	-	8L,2T	N	Y	-	
AMC 2445	299	Pwr	-	45	-	-	-	-	4 channels
AMC 1030	379	Pre	N	-	MM	N	N	-	
AMC 2030	449	Pwr	-	30	-	-	-	-	
AMC S84	479	Pre	Y	-	8L	N	Y	-	Multiroom, bal/unbal inputs
AMC AV81 H.T. Control	499	Pre	Y	-	8L,2T	N	N	-	As AV81 plus Dolby Pro Logic
AMC CVT3030	529	Int	N	30	6L,1T	Y	N	-	Tube amp
Analogue Saturn	75	Pre	N	-	MM	N	N	-	
Analogue Saturn MC	75	Pre	N	-	MC	N	N	-	
Analogue Jupitor	330	Int	N	30	MM,4L,1T	N	N	-	
Arcam Alpha 5	230	Int	N	40	MM,3L,2T	Y	N	43,8,30	Bypassable tone controls
Arcam Alpha 6	330	Int	N	50	MM,3L,2T	Y	Y	43,8,30	Remote volume facility
Arcam Delta 290	450	Int	N	75	4L,2T	Y	Y	43,9,32	Opt MM/MC phono module
Arcam Delta 110S	520	Pre	N	-	MM/MC,3L,2T	Y	Y	43,7,30	As Delta 110, w/o DAC
Arcam Delta 120.2	550	Pwr	N	100	-	Y	Y	43,9,30	Bridgeable
Arcam Delta 110	750	Pre	N	-	MM/MC,2L,2T	Y	Y	43,7,30	On-board DAC, 2 inputs
Art Audio VPL	699	Pre	N	-	6L,2T	N	N	-	
Art Audio VPA	750	Pre	N	-	M/MC,3L,1T	N	N	-	
Art Audio VP1	880	Pre	N	-	MM,3L,1T	N	N	-	
Art Audio Quintet	1156	Pwr	-	15	-	-	-	-	Class A triode
Art Audio Integra	1395	Int	N	30	5L,2T	N	N	-	
Art Audio Concerto	1628	Pwr	-	30	-	-	-	-	2x mono Class A triode
Art Audio Tempo	1980	Pwr	-	30	-	-	-	-	2x mono Class A triode
Art Audio Maestro	2960	Pwr	-	10	-	-	-	-	2x mono Class A triode
Audio Innovation L1	299	Pre	N	-	3L,1T	N	N	25,10,30	
Audio Innovation Alto	299	Int	N	35	4L,2T	N	N	43,8,30	
Audio I Ser 200 Pre	349	Pre	N	-	MM,3L,T	N	N	50,12,30	
Audio I Ser 200 Pwr	499	Pwr	N	12	-	N	N	50,12,30	
Audio Innovation Ser 300	499	Int	N	10	MM,3L,1T	N	N	50,12,30	
Audio I Classic 25	699	Int	N	25	4L,1T	N	N	46,15,34	Kit amplifier
Audio Innovation L2	699	Pre	N	-	4L,1T	N	N	50,12,30	
Audio Innovation P2	699	Pre	N	-	MM	N	N	50,12,30	Phono stage
Audio Innovation Ser 800	849	Pwr	N	25	-	N	N	41,15,34	
Audio Innovation P2MC	899	Pre	N	-	MM/MC	N	N	50,12,30	Phono stage
Audio Innovation Ser 500	999	Int	N	25	MM,3L,2T	N	N	41,15,34	
Audio Innovation Ser 700	999	Int	N	25	4L,1T	N	N	41,15,34	
Audio Innovation 1000	1499	Pwr	N	50	-	N	N	41,15,34	Monoblocks
Audio I First Audio	1549	Pwr	N	7.5	-	N	N	41,15,34	
Audio Innovation 1000SE	2249	Pwr	N	50	-	N	N	41,15,34	Silver circuit board
Audio I 2nd Audio	2999	Pwr	N	15	-	N	N	41,15,34	Monoblocks
Audio Note Ongaku	22411	Int	N	26	6L	N	N	-	Single-ended Class A tube
Audio Note Oto	1250	Int	N	24	MM/MC,4L,1T	N	N	-	
Audio Research LS-3	1599	Pre	N	-	5L,1T	N	N	48,14,26	1 direct input
Audio Research PH-1	1649	Pre	N	-	MM/MC	N	N	48,14,26	Phono preamp
Audio Research LS-3b	2250	Pre	N	-	5L,1T	N	N	48,14,26	1 direct input
Audio Research LS-2	2796	Pre	N	-	5L,1T	N	N	48,14,26	1 direct input/hybrid
Audio Research D-200	2800	Pwr	N	110	-	-	-	48,14,31	Single ended, balanced
Audio Research SP9 II	2850	Pre	N	-	MM/MC,4L,2T	N	N	48,14,26	Hybrid
Audio Research PH-2	2895	Pre	N	-	MM/MC	N	N	48,14,26	Balanced
Audio Research LS-2b	3355	Pre	N	-	5L,1T	N	N	48,14,26	1 balanced direct input/hybrid
Audio Research V35	3355	Pwr	N	30	-	-	-	48,18,37	Balanced in, hybrid
Audio Research V70	4480	Pwr	N	60	-	-	-	48,18,40	Balanced in, hybrid
Audio Research D-300	4800	Pwr	N	160	-	-	-	48,18,33	Single ended, balanced
Audio Research LS-5	5290	Pre	N	-	5L,1T	N	N	48,14,30	Full balanced in/out
Audio Research D-400II	6200	Pwr	N	200	-	-	-	48,23,33	Single ended, balanced
Audio Research V140	8960	Pwr	N	120	-	-	-	48,22,30	Monoblocks, hybrid
Audio Research VT150	14900	Pwr	N	130	-	-	-	37,31,56	Monoblocks, tube
Audiolab 8000C	460	Pre	N	-	MM/MC,1T,3T	Y	N	45,8,36	2 pairs of outputs
Audiolab 8000A	480	Int	N	60	MM,MC,1T,3T	Y	N	45,8,36	Preout/main in
Audiolab 8000P	650	Pwr	-	100	-	-	N	45,8,36	
Audiolab 8000M	700	Pwr	-	125	-	-	N	45,8,36	Single monoblock
Audiolab 8000PPA	800	Pre	N	-	MM/MC	-	-	45,8,36	Phono preamplifier
Audiolink Sterling II	350	Int	N	60	MM/MC	N	N	43,7,270	Available in chrome

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see p123

Audiolab 8000A	450	Int	N	60	MM,MC,1T,3T	Y	N	45,8,36	Preout/main in



Key to amplifiers
Price - typical retail, to nearest pound.
Power - output power in watts, per channel, RMS.
Inputs - MM/MC - phono moving coil and moving magnet, L - line (CD, aux etc), T - tape.
A/V - includes Dolby Surround or Pro Logic decoder and amplification.

Type: Int - integrated, Pre - preamplifier, Pwr - power amplifier.
Headphone - Y - yes, N - no.
Remote - Y - yes, N - no.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	A/V	Power	Inputs	Headphones	Remote	Size	Special
AMPLIFIERS									
Audiolink P400	467	Pre	N	-	4L	N	N	43,7,270	Available in chrome
Audiolink PR401	583	Pwr	N	100	-	N	N	43,10,37	Available in chrome
Aura VA80	280	Int	N	45	5L,1T	Y	N	43,6,31	Chrome finish, £50 extra
Aura VA100	380	Int	N	70	MM,4L,1T	Y	N	43,6,31	Chrome finish add £50
AVI S2000MA	549	Pwr	-	90	-	-	-	-	
AVI S2000MP	699	Pre	N	-	7L,1T	N	-	-	
AVI S2000MM	999	Pwr	-	150	-	-	-	-	2x monoblocks
Beard VM-P	795	Pre	N	-	MM/MC,3L,1T	N	N	-	Hybrid tube/MOSFET
Beard CA-35	995	Pre	N	-	MM/MC,3L,1T	N	N	-	Tube Class A
Beard VMI-50	995	Int	N	50	MM/MC,3L,1T	N	N	-	Hybrid tube/MOSFET
Beard P-35	1395	Pwr	-	35	-	N	N	-	Tube, Class A
Beard CA-506	1695	Pre	N	-	MM/MC,3L,2T	N	N	-	Tube, Class A
Beard A-70	2895	Pwr	-	70	-	N	N	-	Monoblock, tube, Class A
Beard M-1000	5900	Pwr	N	100	-	-	-	-	Pair monoblocks
Bryston .4	641	Pre	Y	-	4L,1T	N	N	48,5,25	
Bryston BP1	673	Pre	Y	-	MM or MC	N	N	48,5,25	Phono stepup, bal & unbal
Bryston 2B-LP	750	Pwr	Y	75	-	N	N	48,5,25	Bridgable
Bryston BP4	802	Pre	Y	-	4L,1T	N	N	48,5,25	Balanced out
Bryston BP5	889	Pre	Y	-	MM/MC,3L,1T	N	N	48,5,25	MM or MC, balanced out
Bryston BP20	1126	Pre	Y	-	8L,1T	N	N	48,5,25	Balanced in/out
Bryston 3B-NRB	1159	Pwr	Y	150	-	N	N	48,13,23	Bridgable, bal & unbalanced
Bryston THX3B	1262	Pwr	Y	150	-	N	N	48,13,23	2 channels, THX approved
Bryston 4B-NRB	1756	Pwr	Y	300	-	N	N	48,13,39	Bridgable, bal & unbalanced
Bryston 7B-NRB	1815	Pwr	Y	500	-	N	N	48,13,39	Single monoblock
Bryston THX4B	1858	Pwr	Y	300	-	N	N	48,13,39	2 channels, THX approved
Bryston THX7B	1917	Pwr	Y	500	-	N	N	48,13,39	1 channel, THX approved
Bryston 8B-NRB	2195	Pwr	Y	150	-	N	N	48,13,39	4 channels, bridgeable
Bryston THX8B	2400	Pwr	Y	150	-	N	N	48,13,39	4 channels, THX approved
CAT SL1 Sig line	5000	Pre	N	-	3L,1T	-	N	31,48,14	2 outputs, valve
CAT SL1 Sig phono	5500	Pre	N	-	MM,2L	-	N	31,48,14	2 outputs, valve
CAT JL1	13500	Pwr	N	200	-	-	-	-	
Chord SPM800	1749	Pwr	-	160	-	-	-	-	
Chord SPM1000	2150	Pwr	-	200	-	-	-	-	
Chord SPM1200	2995	Pwr	-	250	-	-	-	-	
Chord SPM3000	5327	Pwr	-	250	-	-	-	-	4 amps for biamping
Classe Audio 3D	1320	Pre	N	-	MM/MC,4L,1T		R	48,7,28	
Classe Audio 70	1399	Pwr	-	75	-	-	-	48,12,30	Single ended, balanced
Classe Audio 4L	1697	Pre	N	-	5L,1T		N	48,9,34	Remote option
Classe Audio 4	1735	Pre	N	-	MM/MC,4L,1T		N	48,9,34	Remote option
Classe Audio 10	2299	Pwr	-	125	-	-	-	48,17,42	Single ended, bal bridgable
Classe Audio 5L II	2395	Pre	N	-	5L,1T		N	48,15,43	Remote option
Classe Audio 5 II	2657	Pre	N	-	MM/MC,4L,1T		N	48,15,43	Remote option
Classe Audio 15	3399	Pwr	-	175	-	-	-	48,19,42	Single ended, bal bridgable
Classe Audio 6L II	3469	Pre	N	-	5L,1T		N	48,15,43	Remote option, sep PSU
Classe Audio 6 II	3817	Pre	N	-	MM/MC,4L,1T		N	48,15,43	Remote option, sep PSU
Classe Audio 25	4639	Pwr	-	250	-	-	-	48,20,53	Single ended, bal bridgable
Classe Audio M-700	7690	Pwr	-	700	-	-	-	48,19,44	Single ended, bal monoblock
Classe Audio M-1000	9968	Pwr	-	1k	-	-	-	48,22,53	Single ended, bal monoblock
Concordant Exhilerant	900	Pre	N	-	5L	N	N	-	6 tube pre, wood case option
Concordant Exquisite	1950	Pre	N	-	5L	N	N	-	10 tubes, 2 line out, ext PSU
Conrad-Johnson PV10AL	995	Pre	N	-	5L	N	N	-	Line version of PV-10A
Conrad-Johnson PV-10A	1250	Pre	N	-	MC,4L	N	N	-	Tube
Conrad-Johnson PV-12L	2250	Pre	N	-	5L	N	N	-	Line version of PV-12
Conrad-Johnson PV-12	2750	Pre	N	-	MC,4L	N	N	-	Tube
C-J Premier 11A	3500	Pwr	N	70	-	-	-	-	Baby Premier 8
C-J Premier 10	3900	Pre	N	-	5L	N	N	-	Line version of Premier 7B
C-J Evolution 20 SP ED	6700	Pre	N	-	MC,4L	N	N	-	Poor man's Premier 7B
C-J Premier 12	7000	Pwr	N	140	-	-	-	-	Monoblock pair
C-J Premier 7B	11000	Pre	N	-	MC,4L	N	N	-	Ext PSU, twin mains leads
C-J Premier 8A	16000	Pwr	N	275	-	-	-	-	Monoblocks, price per pair
Copland CSA14	999	Int	N	60	MM.3L,1T	N	N	43,13,38	Hybrid tube/transistor
Copland CTA 301	1250	Pre	-	-	MM/MC,3L,1T	N	N	43,13,38	Tube
Copland CTA301	1250	Pre	N	-	MM,3L,1T	N	N	43,13,38	Tube, soft start
Copland CTA-501	1420	Pwr	-	30	-	-	-	43,18,38	Tube
Copland CTA501	1420	Pwr	N	30	2L	N	N	43,18,38	Tube, has vol control
Copland CTA401	1495	Int	N	30	MM.3L,1T	N	N	43,18,38	Tube push/pull ultra-linear
Copland CTA-504	1750	Pwr	-	50	-	-	-	43,18,38	Switchable tetrode/triode
Copland CTA504	1750	Pwr	N	50	-	N	N	43,18,38	Switchable tetrode/triode
Counterpoint Solid 1EM	895	Pwr	-	100	-	-	-	25,6,27	Mono
Counterpoint Solid 8E	1075	Pre	N	-	3L,1T	N	N	49,6,27	
Counterpoint SA-1000	1095	Pre	N	-	MM/MC,3L,1T	N	N	49,12,32	
Counterpoint Solid 1E	1295	Pwr	-	100	-	-	-	-	Mono
Counterpoint SA100	1495	Pwr	-	100	-	-	-	-	Hybrid
Counterpoint SA-2000E	1595	Pre	N	-	4L,2T	N	N	49,12,33	
Counterpoint Solid 2E	1955	Pwr	-	200	-	-	-	49,17,49	Hybrid
Counterpoint SA-3000	1995	Pre	N	-	MM/MC,4L,2T	N	N	49,12,33	Separate PSU
Counterpoint NPS-200E	2495	Pwr	-	200	-	N	N	-	Rated at 4ohms, hybrid
Counterpoint SA4	3575	Pwr	-	140	-	-	-	-	Hybrid
Counterpoint SA-5000E	3595	Pre	N	-	MM/MC,4L,2T	N	N	49,12,27	Separate PSU
Counterpoint NPM-E	3798	Pwr	-	150	-	-	-	49,18,49	
Counterpoint NPS-400E	3995	Pwr	-	400	-	N	N	-	Rated at 4 ohms, hybrid
Counterpoint SA-9	3995	Pre	N	-	MM/MC	N	N	49,12,37	Phono stepup
C'point Nat Progress	4125	Pwr	-	150	-	-	-	-	Mono, hybrid
Credo PMP003	385	Pre	N	-	-	N	N	22,6,24	Phono amp MM/MC, & PSU
Credo HMP003	388	Pre	N	-	-	Y	N	-	Class A headphone amp

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see p123

Audiolab 8000A	450	Int	N	60	MM,MC,1T,3T	Y	N	45,8,36	Preout/main in

The Forefront of Technology



YAMAHA

CINEMA™ DSP



Model No: **DSPA-2070**

- *The DSP-A2070 lets you select from among 11 Cinema DSP and 12 HiFi DSP programs.*
- *Cinema DSP multiplies the effects of Dolby Pro Logic Surround and Digital Sound Field processing to create sound fields such as the Concert Hall, Church or Movie Theatre.*
- *Cinema DSP gives you the same dynamic, all enveloping experience that the sound director intended you to have.*

Bill Hutchinson INNOVATION AWARD

Considerable time and effort has gone into the creation of the Bill Hutchinson Innovation Award Scheme, drawing from more than two decades of experience and expertise.

The Innovation Award is designed to assist you in identifying state of the art equipment that matches your expectations whilst being of a build quality that ensures many years of enjoyment.

A list of priorities have been drawn up in order to establish the framework of the Award Scheme. The main priorities are, sound, value, construction, design, style and originality.

The choice of dealer should be given the same care and attention as is given to your choice of equipment, so that you may receive the kind of quality service and advice that compliments equipment of the same standard. The type of service you ultimately receive will reflect on your overall enjoyment of the product. A long-term association with a professional dealer has real benefits and will serve as your personal contact for information and advice on the Manufacturers latest Innovations

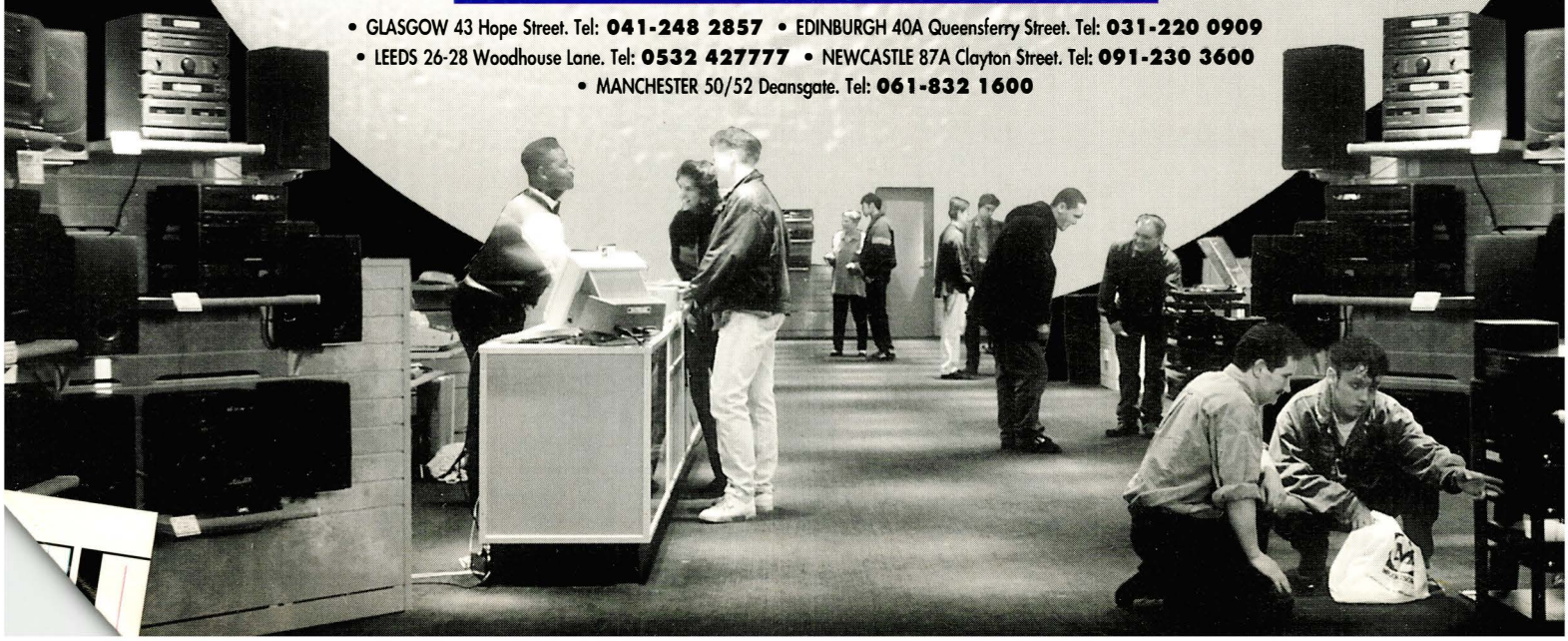
If it is not possible to visit a Bill Hutchinson Hi-Fi AV Centre, simply contact the Manufacturer for details of your nearest authorised stockist.

YAMAHA 0923 233166

Bill Hutchinson

Hi-Fi • CD • Audio Visual Centre

- GLASGOW 43 Hope Street. Tel: **041-248 2857**
- EDINBURGH 40A Queensferry Street. Tel: **031-220 0909**
- LEEDS 26-28 Woodhouse Lane. Tel: **0532 427777**
- NEWCASTLE 87A Clayton Street. Tel: **091-230 3600**
- MANCHESTER 50/52 Deansgate. Tel: **061-832 1600**





Key to amplifiers
Price - typical retail, to nearest pound.
Power - output power in watts, per channel, RMS.
Inputs - MM/MC - phono moving coil and moving magnet, L - line (CD, aux etc), T - tape.
A/V - includes Dolby Surround or Pro Logic decoder and amplification.

Type: Int - integrated, Pre - preamplifier, Pwr - power amplifier.
Headphone - Y - yes, N - no.
Remote - Y - yes, N - no.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	A/V	Power	Inputs	Headphones	Remote	Size	Special
AMPLIFIERS									
Credo MMP002	439	Pre	N	-	-	N	N	-	Mic amp, phantom power
Credo IMP702	499	Int	N	70	6L	-	N	44,6,31	
Credo IMP703	538	Int	N	70	MM/MC, 6L	-	Y	44,6,31	As above, with remote
Credo CMP004	799	Pre	N	-	6L	N	N	44,6,31	3 outputs
Credo CMP005	1119	Pre	N	-	6L	N	Y	-	Remote controlled pre
Credo PMP154	1699	Pwr	N	150	-	-	N	44,16,31	
Credo PMP303	1699	Pwr	N	30	-	-	N	-	Class A power amp
Credo PMP102	2181	Pwr	N	100	-	-	N	44,21,31	Class A power amp
Credo PMP252	2509	Pwr	N	250	-	-	N	44,21,31	
Creek P42	250	Pre	-	-	4L,2T	Y	-	42,6,20	Plug-in modules available
Creek R42	250	Pwr	-	50	-	-	-	42,6,20	
Creek 4240	250	Int	N	40	3L,1T	Y	N	42,6,20	Optional phono input
Crimson 620	395	Pwr	N	40	-	-	-	-	
Crimson 610	395	Pre	N	-	MM/MC,2L,1T	N	N	-	Star earth
Crimson CS610	395	Pre	N	-	MM/MC,2L,1T	N	N	9,10,35	
Crimson CS610B	395	Pre	N	-	MM/MC,3L,1T	N	N	-	
Crimson CS620	395	Pwr	N	40	-	-	-	9,10,35	
Croft Micro	299	Pre	N		MM,3T,1T	N	N	-	
Croft Micro	400	Pre	N	-	MM,3L,1T	N	N	43,10,36	Tube
Croft Series 5	549	Pwr	N	35	-	N	N	-	Ultralinear design
Croft Charisma	599	Pre	N		MM,3T,1T	N	N	-	
Croft Integrated	599	Int	N	35	MM,3L,1T	N	N	-	
Croft Charisma	700	Pre	N	-	MM,3L,1T	N	N	43,10,36	Tube
Croft Series X	800	Pwr	N	25	-	-	-	43,10,36	OTL amp, triode
Croft Enigma	999	Pre	N		MM,3T,1T	N	N	-	
Croft Enigma	1100	Pre	N	-	MM,3L,1T	N	N	43,10,36	Tube
Croft Series 6	1300	Pwr	N	120	-	-	-	43,10,36	Triode facility
Croft Series IIIR	1599	Pwr	N	35	-	N	N	-	OTL, regulated PSU
Croft Series III R	1600	Pwr	N	45	-	-	-	50,20,25	OTL amp, triode
Croft Absolut 1	1999	Pre	N		MM,3T,1T	N	N	-	
Croft Series IIR	5500	Pwr	N	100	-	N	N	-	Monoblock OTL
Dawn Audio Cmd 2 by 200	890	Pwr	-	200	-	N	N	38,11,26	Single monoblock
Dawn Audio Prelude +50	951	Pre	N	-	MM/MC,2L,2T	N	N	38,9,26	Pre out line driver
Denon PMA-250 III	160	Int	N	30	MM,3L,1T	Y	N	44,10,28	UK design
Denon PMA-350 II	220	Int	N	50	MM,3L,2T	Y	N	44,12,28	UK design
Denon PMA-480R	220	Int	N	50	MM,3L,2T	Y	Y	44,12,29	
Denon PMA-450	250	Int	N	60	MM,3L,2T	Y	N	44,14,36	UK design
Denon PMA-880R	300	Int	N	75	MM,3L,2T	Y	Y	44,16,40	
Denon AVC-1530	480	Int	Y	70	MM,2L,2T	Y	Y	44,14,34	
Denon AVC-3020	730	Int	Y	80	MM,4L,4T	Y	Y	44,16,43	Learning remote
Denon AVC-3530	1000	Int	Y	110	MM,4L,4T	Y	Y	44,16,43	Learning remote
DNM 3 Start	850	Pre	N	-	MM/MC,2L,1T	N	N	27,13,16	
DNM 3A Start	1200	Pre	N	-	MM/MC,2L,1T	N	N	27,13,16	
DNM PA1	1450	Pwr	N	45	-	-	-	27,13,18	Triwire output
DNM 3B Primus E	2050	Pre	N	-	MM/MC,4L,1T	N	N	27,13,16	
DNM 3B Twin E	3050	Pre	N	-	MM/MC,4L,1T	N	N	27,13,16	
DNM PA2BE	3550	Pwr	N	90	-	-	-	27,13,18	Triwire output
DNM 3B Six E	4050	Pre	N	-	MM/MC,4L,1T	N	N	27,13,16	
DNM PA2BS	4450	Pwr	N	90	-	-	-	27,13,18	Triwire output
DNM PA2BS-1	4800	Pwr	N	90	-	-	-	27,13,18	Triwire output
DPA DSP200S	495	Pre	N	-	5L,1T	N	N	-	
DPA DPA200S	750	Pwr	-	60	-	-	-	-	Bridgable
EAR EAR802	1440	Pre	N	-	MM,2L,2T	N	N	-	Tube
EAR EAR802MC	1580	Pre	N	-	MC,2L,2T	N	N	-	Tube
EAR G88	5770	Pre	N	-	MM/MC,3L,2T	N	N	-	
ECA Vista	760	Pre	N	-	4L,1T	N	N	39,10,39	Phase coherent design
ECA Lectern	760	Pwr	-	50	-	-	-	39,10,30	Phase coherent design
ECA Prisma	760	Pre	-	-	MM,MC	-	-	39,10,23	Phono stepup
E'paniet ECP-1	502	-	N	-	MM/MC	-	-	24,7,16	Adjustable MC input
E'paniet EC-4 Line	1332	Pre	N	-	5L,2T	-	-	48,9,23	
E'paniet EC-3MM	1556	Pre	N	-	MM,4L,2T	-	-	48,9,23	
E'paniet EC-3 MC	1865	Pre	N	-	MC,4L,2T	-	-	48,9,23	
E'paniet AW100DMB	2018	Pwr	N	100	-	-	-	48,13,36	High current (80A)
E'paniet EC1-1	2081	Int	N	100	5L,2T	-	-	45,13,36	High current (80A)
E'paniet AW250DMB	4370	Pwr	N	250	-	-	-	48,22,45	High current (100A)
EMF Audio Sequel	349	Int	N	50	MM,4L,1T	Y	N	-	
Exposure XX	625	Int	N	40	4L,2T	N	N	43,85,35	
Exposure XiX	725	Pre	N	-	5L	N	N	43,85,35	
Exposure XV	725	Int	N	40	MM,MC,3L,2T	N	N	43,85,35	
Exposure XIV	750	Pre	N	-	MM,MC,3L,2T	N	N	48,8,30	Digital in
Exposure XVIII	750	Pwr	N	60	-	N	N	43,85,35	
Exposure XVII	775	Pre	N	-	MM,MC,3L,2T	N	N	43,85,35	
Exposure XVIII (pr)	1500	Pwr	N	60	-	N	N	43,85,35	2x mono monoblock
Exposure IV	1800	Pwr	N	80	-	N	N	48,13,35	
Forte Audio Model 40	1250	Pre	N	-	MM/MC/2L,2T	N	N	-	
Forte Audio Model 5	1295	Pwr	-	100	-	-	-	-	
Forte Audio Model 7	1295	Pwr	-	75	-	-	-	-	Class A monoblock
Forte Audio Model 4	1795	Pwr	-	60	-	-	-	-	Class A
Forte Audio Model 6	1795	Pwr	-	150	-	-	-	-	
Fullers Pre 1	599	Pre	N	-	MM/5L,1T	N	N	48,9,30	Optional MC stage
Fullers Pre 1+	649	Pre	N	-	6L,2T	N	N	48,9,30	No phono option - hard wired
Fullers A10	1200	Pwr	-	10	-	-	-	48,13,30	Single ended Class A
Fullers Audio A1	1200	Pwr	-	12	-	-	-	-	Single ended Class A
Grant CD10	482	Pre	N	-	4L	N	N	-	
Grant G100P	764	Pre	N	-	MM,2L,1T	N	N	-	

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see p123

Audiolab 8000A	450	Int	N	60	MM,MC,1T,3T	Y	N	45,8,36	Preout/main in



Key to amplifiers
Price - typical retail, to nearest pound.
Power - output power in watts, per channel, RMS.
Inputs - MM/MC - phono moving coil and moving magnet, L - line (CD, aux etc), T - tape.
A/V - includes Dolby Surround or Pro Logic decoder and amplification.

Type: Int - integrated, Pre - preamplifier, Pwr - power amplifier.
Headphone - Y - yes, N - no.
Remote - Y - yes, N - no.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	A/V	Power	Inputs	Headphones	Remote	Size	Special
AMPLIFIERS									
Grant G50A	1128	Pwr	-	60	-	-	-	-	Monoblocks
Grant G100AMS	1528	Pwr	-	100	-	-	-	-	
Grant G350A	3455	Pwr	-	350	-	-	-	-	
Grant G200AMS	3760	Pwr	-	200	-	-	-	-	Monoblocks
Grundig V210	130	Int	N	50	MM,5L,1T	Y	Y	36,12,35	Pre-main split
Grundig V1	150	Int	N	50	MM,5L,1T	Y	Y	43,14,30	Tone defeat
Grundig V310	170	Int	N	70	MM,5L,1T	Y	Y	36,12,30	Pre-main split
Grundig V2	200	Int	N	80	MM,5L,1T	Y	Y	43,14,30	Tone defeat
Grundig V3	250	Int	N	120	MM,5L,1T	Y	Y	43,14,30	Pre-main split
GT Audio Pre	1500	Pre	N	-	MM,3L,1T	N	N	-	Regulated HT/LT PSU
GT Audio Pwr	2000	Pwr	N	30	-	N	N	-	Triode switchable (15w)
Harman-Kardon HK6250	279	Int	N	33	MM,3L,2T	N	N	45,11,37	
Harman-Kardon PA2100	349	Pwr	-	45	-	-	-	45,11,37	
Harman-Kardon HK1400	399	Int	N	40	MM/MC,3L,2T	N	N	45,11,37	
Harman-Kardon HK6350	399	Int	N	25	MM,6L,2T	Y	Y	45,11,37	
Harman-Kardon HK6550	429	Int	N	60	MM/MC,3L,2T	Y	N	45,14,37	
Harman-Kardon AP2500	499	Pre	N	-	MM/MC,6L,2T	N	N	45,11,35	
Harman-Kardon PA2200	579	Pwr	-	70	-	-	-	45,14,38	
Harman-Kardon HK6650	749	Int	Y	70	MM/MC,4L,2T	Y	Y	45,14,37	Video circuitry
Harman-Kardon HK6850	899	Int	Y	85	MM/MC,4L,2T	Y	N	45,16,40	Video circuitry
Harman-Kardon PA2400	899	Pwr	-	120	-	-	-	45,16,41	
Harman-Kardon HK6950	1299	Int	Y	120	MM/MC5L,2T	Y	Y	45,16,40	Video circuitry
Heybrook Integra	550	Int	N	70	4L,1T	Y	N	-	
Inca Tech Oberon Pre	350	Pre	N	-	MM/MC,6L,2T	N	N	43,8,22	CD direct & Two outputs
Inca Tech Oberon Pwr	400	Pwr	-	70	-	Y	N	43,8,22	Two inputs
Inca Tech Oberon	450	Int	N	-	MM/MC,6L,2T	Y	N	43,8,22	Preout, biwire
Jadis DEFY-P60	3774	Pre	N	-	MM/MC,4L,1T	-	-	43,17,30	Tube
Jadis JPL	4720	Pre	N	-	5L,1T	-	-	43,17,30	Tube
Jadis JPP-200	4778	Pre	N	-	4L,1T	-	-	-	
Jadis DEFY-7	5290	Pwr	-	100	-	-	-	49,23,63	Tube
Jadis JA30	5760	Pwr	-	30	-	-	-	21,21,46	Tube, 1x monoblock
Jadis JP-30MC	6444	Pre	N	-	MM/MC,4L,1T	-	-	-	
Jadis JP-S2	7900	Pre	N	-	6,1T	-	-	-	
Jadis JA80	9912	Pwr	-	60	-	-	-	23,26,58	Tube, 1x monoblock
Jadis JP-80MC	11250	Pre	N	-	MM/MC,4L,1T	-	-	-	
Jadis JA-200	15518	Pwr	-	160	-	-	-	26,23,58	Tube, monoblock (four boxes)
Jadis JP-200MC	19000	Pre	N	-	MM/MC,5L,1T	-	-	-	
Jadis JA-500	21900	Pwr	-	400	-	-	-	28,36,79	Tube, monoblock (four boxes)
JVC AX-A472BK	250	Int	N	65	MM,3L,2T	Y	N	44,15,36	
JVC AX-R562BK	250	Int	N	80	MM,3L,2T	Y	Y	44,15,31	
JVC AX-A662BK	330	Int	N	90	MM/MC,3L,2T	Y	N	44,13,31	
JVC AX-Z1010TN	650	Int	N	100	MM/MC,3L,2T	Y	Y	44,13,46	
KAL Magician	550	Pre	N	-	3L,1T	Y	N	-	Tube
KAL Harlequin	750	Pre	N	-	MM/MC,2L,1T	Y	N	-	Tube
KAL Empress	3660	Pre	N	-	MM//MC,2L,1T	Y	N	-	Tube
KAL Emperor	4375	Pwr	-	9	-	-	-	-	Single ended tube Class A
KAL Conqueror	12500	Int	N	30	MM/MC,3L,1T	N	N	-	
Kenwood KA-1030	140	Int	N	65	MM,3L,2T	Y	N	44 wide	
Kenwood KA-2060R	170	Int	N	65	MM,3L,2T	Y	Y	44	System control
Kenwood KA-3020	170	Int	N	45	MM,3L,2T	Y	N	44 wide	
Kenwood KA-3020SE	200	Int	N	50	MM,3L,2T	Y	N	44 wide	UK Special Edition
Kenwood KA-3060R	230	Int	N	45	MM,3L,2T	Y	Y	44 wide	System control
Kenwood KA-5020	230	Int	N	80	MM,3L,2T	Y	N	44 wide	
Kenwood KA-4050R	280	Int	N	70	MM,3L,2T	Y	Y	44 wide	System control
Kenwood KA-V3700	300	Int	Y	100	MM,4L,2T	Y	Y	44 wide	System control
Kenwood KA-5050R	350	Int	N	95	MM,3L,2T	Y	Y	44 wide	System control
Kenwood KA-7050R	500	Int	N	100	MM,3L,2T	Y	Y	44 wide	System control
Kenwood KA-V7700	600	Int	Y	45	MM,11L,1T	Y	Y	44 wide	5 pre-outs, learning remote
Kenwood KA-V8500	700	Int	Y	55	MM,11L,1T	Y	Y	44 wide	5 pre-outs, learning remote
Krell KSL-2	3000	Pre	N	-	4L,1T	N	N	48,7,36	Opt. MM/MC stage
Krell KSA-50s	3490	Pwr	-	50	-	-	-	48,22,40	Sustained Plateau Bias
Krell KRC-2s	3980	Pre	N	-	6L,1T	N	Y	48,7,36	Opt MM/MC stage
Krell KSA-100s	5290	Pwr	N	100	-	-	-	48,22,50	Sustained Plateau Bia
Krell KRCs	6777	Pre	N	-	6L,1T	N	Y	48,7,36	Opt MM/MC stage
Krell KSA-200s	7450	Pwr	N	200	-	-	-	48,22,54	Sustained Plateau Bias
Krell KSA-300s	8900	Pwr	N	300	-	-	-	48,22,62	Sustained Plateau Bias
Krell K.A.S.	29500	Pwr	N	350	-	-	-	48,34,64	Monoblocks
Lecson 380X	255	Int	N	35	MM/MC,6L	N	N	44,6,27	
Lecson Stereo 383X	295	Int	N	60	MM/MC,6L	Y	N	44,6,27	
Lecson Quattra	420	Int	N	30	MM/MC + N/A	N	N	44,6,27	Pre out/main in
Lecson Quattra Plus	655	Int	N	50	MM/MC + N/A	N	N	44,6,27	Separate PSU
LFD Phonostage MM0	369	Pre	N	-	MM, MC	N	N	30,6,37	Switchable MM/MC
LFD Linestage LSO	469	Pre	N	-	5L,1T	N	N	30,6,37	Zero feedback
LFD Powerstage PAO	469	Pwr	N	50	-	N	N	30,6,37	Stereo MOSFET
LFD Integrated Zero	479	Int	N	50	5L,1T	N	N	30,6,37	Hand made, custom parts
LFD Int Zero (Ph)	650	Int	N	50	MM/MC,5L,1T	N	N	30,6,37	Phono stepup, zero feedback
LFD MC1 Phonostage	699	Pre	N	-	MC	N	N	30,7,36	Discrete circuit
LFD LS1 Linestage	749	Pre	N	-	4L,1T	N	N	48,7,33	Zero feedback
LFD PA1 Powerstage	749	Pwr	N	60	-	N	N	48,7,33	MOSFETs, custom parts
LFD PPS	899	Pre	N	-	2L,1T	N	N	13,6,27	Switched attenuator, passive
LFD Integrated 1	999	Int	N	65	MM/MC,4L,1T	N	N	48,7,37	More powerful Int Zero
LFD Phonostage MC2	1099	Pre	N	-	MC	N	N	30,7,36	Hand tuned MC1
LFD Linestage LS2	1250	Pre	N	-	4L,1T	N	N	48,7,37	Hand tuned LS1
LFD Powerstage PA2	1250	Pwr	N	75	-	N	N	48,7,33	Hand tuned PA1
LFD Linestage LS2P	1499	Pre	N	-	MM/MC,4L,1T	N	N	48,7,37	As LS2 with phono stage

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see p123

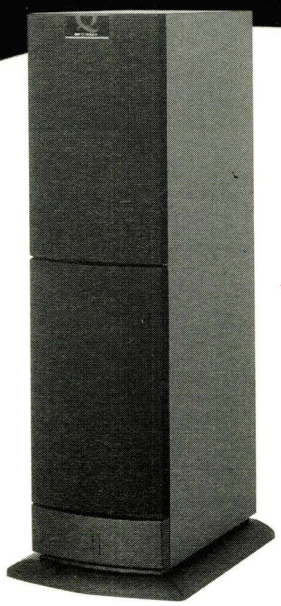
Audiolab 8000A	450	Int	N	60	MM,MC,1T,3T	Y	N	45,8,36	Preout/main in

The Forefront of Technology



KEF

The experience of sound



Bill Hutchinson INNOVATION AWARD

Model No: **Q30**

- *Frequency response: 50Hz-20kHz+3dB*
- *Sensitivity: 85dB, 25.3v at 1M*
- *Amplifier requirements: 10-125W*
- *Impedance: 6 ohms*
- *Net Weight: 9.3kg/20.5lbs*
- *Dimensions: (HxWxD) 700 x 190 x 301mm, 27.5 x 7.5 x 11.85in*

Considerable time and effort has gone into the creation of the Bill Hutchinson Innovation Award Scheme, drawing from more than two decades of experience and expertise.

The Innovation Award is designed to assist you in identifying state of the art equipment that matches your expectations whilst being of a build quality that ensures many years of enjoyment.

A list of priorities have been drawn up in order to establish the framework of the Award Scheme. The main priorities are, sound, value, construction, design, style and originality.

The choice of dealer should be given the same care and attention as is given to your choice of equipment, so that you may receive the kind of quality service and advice that compliments equipment of the same standard. The type of service you ultimately receive will reflect on your overall enjoyment of the product. A long-term association with a professional dealer has real benefits and will serve as your personal contact for information and advice on the Manufacturers latest Innovations

If it is not possible to visit a Bill Hutchinson Hi-Fi AV Centre, simply contact the Manufacturer for details of your nearest authorised stockist.

KEF 0622 672261

Bill Hutchinson

Hi-Fi • CD • Audio Visual Centre

- GLASGOW 43 Hope Street. Tel: **041-248 2857**
- EDINBURGH 40A Queensferry Street. Tel: **031-220 0909**
- LEEDS 26-28 Woodhouse Lane. Tel: **0532 427777**
- NEWCASTLE 87A Clayton Street. Tel: **091-230 3600**
- MANCHESTER 50/52 Deansgate. Tel: **061-832 1600**





Key to amplifiers
Price - typical retail, to nearest pound.
Power - output power in watts, per channel, RMS.
Inputs - MM/MC - phono moving coil and moving magnet, L - line (CD, aux etc), T - tape.
A/V - includes Dolby Surround or Pro Logic decoder and amplification.

Type: Int - integrated, Pre - preamplifier, Pwr - power amplifier.
Headphone - Y - yes, N - no.
Remote - Y - yes, N - no.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	A/V	Power	Inputs	Headphones	Remote	Size	Special
AMPLIFIERS									
LFD Linestage LSB	1750	Pre	N	-	4L,1T	N	N	48,7,37	Balanced LS2
LFD Powerstage PA2M	1750	Pwr	N	100	-	N	N	30,7,37	Mono PA2
LFD Disc Preamp	3999	Pre	N	-	MC	N	N	30,5.36	Battery powered
Linn Majik-1 (Line)	524	Int	N	33	4L,2T	Y	N	32,8,33	Works as pre/int amp, tuner
Linn LK100	549	Pwr	-	50	-	-	-	32,8,33	Stereo
Linn Majik-1 (Phono)	593	Int	N	33	MM,MC,3L,2T	Y	N	32,8,33	As line Majik
Linn Kairn Pro	998	Pre	N	-	4L, 2T	N	N	32,8,33	Multi-room compatible
Linn Kairn	1398	Pre	N	-	MM, MC 3L,2T	N	N	32,8,32	Multi-room compatible
Linn Klout	1895	Pwr	-	80	-	-	-	32,8,33	Stereo, tri-wire connectors
Lumley Reference PP70	325	Pre	N	-	6L,1T	-	N	36,46,6	Passive, for ST40 or ST70
Lumley Reference PP40	325	Pre	N	-	6L,1T	-	N	29,40,6	Bolts onto ST40 or ST70
Lumley Reference PP1	325	Pre	N	-	6L,1T	-	-	29,44,6	Passive
Lumley Reference LV1	1000	Pre	N	-	6L,1T	N	N	29,44,6	Active valve circuit
Lumley Reference ST40	1250	Pwr	N	40	30,40,17	N	N	-	Pentode optimised for 6 ohms
Lumley Reference PV1	1500	Pre	N	-	MM,5L,1T	N	N	-	Phono version of LV1
Lumley Reference ST70	1950	Pwr	N	70	-	N	N	36,46,18	Switchable triode/pentode
Lumley Reference M120	3200	Pwr	N	120	-	-	-	29,44,18	monoblocks, triode/pentode
Lumley Reference M500	12000	Pwr	N	-	-	-	N	35,80,30	monoblocks, triode/pentode
Luxman L570	3750	Int	N	50	MM/MC,4L,3T	N	N	44,18,47	Class A
Lynwood Opal	685	Int	N	80	7L,1T	N	N	-	
Lynwood Ruby	985	Pwr	-	120	-	-	-	-	
Magnum IA120	249	Int	N	50	MM,5L,2T	Y	N	-	
Magnum Quartet	329	Int	N	36	MM,3L,2T	Y	N	-	
Magnum MF125	515	Pwr	-	140	-	-	-	-	Monoblocks
Magnum MF300	595	Pwr	-	180	-	-	-	-	Monoblocks
Magnum Class A	599	Int	N	60	MM/MC,3L,1T	N	N	-	
Magnum MA500	1295	Pwr	-	280	-	-	-	-	Monoblocks
Marantz PM-32	140	Int	N	40	MM,3L,1T	Y	N	42,14,28	
Marantz PM-44SE	180	Int	N	45	MM,3L,2T	Y	N	42,14,28	Audiophile components
Marantz PM44SEII	200	Int	N	45	MM,3L,2T	Y	N	42,14,28	
Marantz PM-43	200	Int	N	55	MM,3L,2T	Y	N	42,14,30	
Marantz MA-500	250	Pwr	N	125	-	-	-	9,15,45	D-bus, monoblocks, bridgable
Marantz PM-53	250	Int	N	65	MM,3L,2T	Y	Y	42,14,30	
Marantz PM-52SE	300	Int	N	70	MM/MC,3L,2T	Y	N	42,16,34	Audiophile components
Marantz PM-54SE	300	Int	N	65	MM/MC,3L,2T	Y	N	42,16,34	Audiophile components
Marantz PM-63	300	Int	N	70	MM,3L,2T	Y	Y	42,14,30	
Marantz PM-700AV	450	Int	Y	45	MM,5L,2T	Y	Y	42,16,34	Dolby Pro Logic
Marantz PM-80 II	480	Int	N	100	MM/MC,4L,2T	Y	N	42,17,34	
Marantz AV-500	550	Pre	Y	-	MM,7L,2T	N	Y	42,10,34	Dolby Pro Logic
Marantz PM-80SE	650	Int	N	110	MM/MC,3L,3T	Y	N	42,17,34	Audiophile components
Mark Levinson No 25	2950	Pre	N	-	MM,3L,2T	N	N	-	
Mark Levinson 29	3450	Pwr	-	50	-	-	-	-	
Mark Levinson 27.5	5399	Pwr	-	100	-	-	-	-	
Mark Levinson No 26	5450	Pre	N	-	MM,3L,2T	N	N	-	
Mark Levinson 23.5	7399	Pwr	-	200	-	-	-	-	
Mark Levinson 20.6	15790	Pwr	-	100	-	-	-	-	Monoblocks, Class A
Matisse Fantasy	2300	Pre	Y	-	6L,2T	N	N	-	Line stage
Matisse Reference	3500	Pre	Y	-	MM/MC,5L,2T	N	N	-	
McIntosh MC7100	959	Pwr	N	100	-	-	-	-	
McIntosh C712	1249	Pre	N	-	6L, 2T	Y	Y	-	
McIntosh C38	1995	Pre	N	-	MM. 5L,3T	Y	Y	-	Multi-room, balanced out
McIntosh MC7150	2159	Pwr	N	150	-	N	N	-	
McIntosh C40	2695	Pre	N	-	MM, 6L, 3T	Y	N	-	Balanced in/out
McIntosh C39	2795	Pre	Y	-	MM, 10L (6 Vid)	Y	Y	-	Two zone, THX compatable
McIntosh MC7106	2895	Pwr	Y	100	-	N	N	-	Six channel THX amp
McIntosh MC7300	2995	Pwr	N	300	-	N	N	-	
McIntosh MC275	3595	Pwr	N	75	-	N	N	-	Classic valve amp
McIntosh MC2600	5195	Pwr	N	600	-	N	N	-	
McIntosh MC1000	8995	Pwr	N	100	-	N	N	-	Monoblocks
Meridian 501	595	Pre	N	-	MM,4L,T	Y	N	33,9,34	MC option, system handset
Meridian 555	595	Pwr	-	60	-	N	N	33,9,32	Stereo
Meridian 562	625	Pre	N	-	MM,8L,T,6D	N	N	33,9,34	Digital main out. MC option
Meridian 551	695	Int	N	55	MM,4L,T			33,9,34	MC option
Meridian 501V	745	Pre	Y	-	MM,4L,T	Y	N	33,9,34	As 501, plus video switching
Meridian 562V	825	Pre	Y	-	MM,8L,T,6D	N	N	33,9,34	As 562, plus video switching
Meridian 601	2750	Pre	N	-	MM,4L,T	Y	Y	-	DSP tone control, MC option
Metaxas Ikarus II	1350	Int	N	40	MM/MC,3L,1T	N	N	40,7,40	
Metaxas Charisma	1525	Pre	N	-	MM/MC,3L,2T	-	N	36,6,29	Separate PSU
Metaxas Iraklis	1625	Pwr	N	50	-	-	-	43,18,37	
Metaxas Marquis	2250	Pre	N	-	MM/MC,3L,2T	-	N	29,7,45	Separate PSU
Metaxas Solitaire	2350	Pwr	N	130	-	-	-	52,19,42	
Metaxas Opulence	5500	Pre	N	-	MM/MC,3L,2T	-	N	39,7,45	Separate mains isolated PSU
Metaxas Soliloquy	5990	Pwr	N	100	-	-	-	52,19,42	Pair monoblocks
Michell Iso	393	Pre	N	-	MM or MC	N	N	small	Phono stage
Michell Argo	689	Pre	N	-	3L,1T	N	N	33,7,19	2 pairs outputs
Michell Iso HR	850	Pre	N	-	MM or MC	N	N	small	Phono stage
Michell Alecto Stereo	1150	Pwr	N	50	-	N	N	32,20,36	
Michell Argo HR	1300	Pre	N	-	3L,1T	N	N	36,8,22	2 pairs outputs
Michell Alecto Mono	1879	Pwr	N	100	-	N	N	32,20,36	
Michi RHC-10	795	Pre	N	-	5L	-	-	47,8,34	Passive
Michi RHQ-10	995	Pre	N	-	MM,MC	-	-	47,8,34	Phono equaliser
Michi RHA-10	995	Pre	N	-	5L	-	Y	47,8,34	Active
Michi RHB-10	1550	Pwr	N	200	-	-	-	47,19,37	
Mission Cyrus III	500	Int	N	50	MM,5L,1T	Y	N	22,8,36	PSX-R outboard PSU option
Moth 30 Passive	149	Pre	N	-	3L,1T	N	N	-	

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see p123

Audiolab 8000A	450	Int	N	60	MM,MC,1T,3T	Y	N	45,8,36	Preout/main in



Key to amplifiers
Price - typical retail, to nearest pound.
Power - output power in watts, per channel, RMS.
Inputs - MM/MC - phono moving coil and moving magnet, L - line (CD, aux etc), T - tape.
A/V - includes Dolby Surround or Pro Logic decoder and amplification.

Type: Int - integrated, Pre - preamplifier, Pwr - power amplifier.
Headphone - Y - yes, N - no.
Remote - Y - yes, N - no.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	A/V	Power	Inputs	Headphones	Remote	Size	Special
AMPLIFIERS									
Moth 30 RIAA	199	Pre	N	-	MM/MC,	N	N	-	
Moth 30 Series Power	239	Pwr	-	30	-	-	-	-	
Moth 30 Active	249	Pre	N	-	4L,1T	N	N	-	
Moth 30 RIAA 100VA	299	Pre	N	-	MM/MC	N	N	-	
Moth 30 Active 100VA	349	Pre	N	-	4L,1T	N	N	-	
Mus-Fid The Preamp	219	Pre	N	-	4L,2T	N	N	44,8,32	XLR, opt phono/digital board
Musical Fidelity A1.3	329	Int	N	25	MM,MC,3L,1T	N	N	41,6,25	Near Class A, tape monitor
Mus-Fid Preamp 8	349	Pre	N	-	MM/MC,3L,1T	N	N	41,6,25	Tape monitor, chrome finish
Mus-Fid Typhoon	349	Pwr	N	45	-	-	-	44,8,32	XLR in, bridgeable
Musical Fidelity A120	549	Int	N	40	MM/MC,3L,2T	N	N	44,10,35	Class A
Musical Fidelity MA65	950	Pwr	N	65	-	-	-	41,6,25	Class A
Musical Fidelity F22	999	Pre	N	-	5L,1T	N	Y	49,12,33	Optional phono/digital boards
Musical Fidelity FX	1099	Pwr	N	90	-	-	-	49,12,38	Ball/unbalanced in
Musical Fidelity A1000	1399	Int	N	50	MM/MC,3L,1T	N	N	49,13,36	Separate PSU
Musical Fidelity F15	1899	Pwr	N	100	-	-	-	49,19,38	Bal/unbalanced in/hybrid
Musical Fidelity F18	3999	Pwr	N	220	-	-	-	49,19,67	Bal/unbalanced in/hybrid
NAD 302	169	Int	N	25	MM,3L,2T	Y	N	-	
NAD Monitor 1000	199	Pre	N	-	MM/MC,3L,2T	Y	N	-	
NAD 304	229	Int	N	35	MM,4L,2T	Y	N	-	
NAD Monitor 2100	299	Pwr	-	60	-	-	-	-	
NAD Monitor 1000S	319	Pre	N	-	MM/MC,3L,2T	Y	N	-	
NAD 306	329	Int	N	50	MM,4L,2T	Y	N	-	
NAD Monitor 2700	459	Pwr	-	150	-	-	-	-	THX approved
NAD Monitor 208	799	Pwr	-	250	-	-	-	-	THX approved
Naim NAP90/3	375	Pwr	-	30	-	-	-	32,56,30	Latest style. Suits 92
Naim NAC92	405	Pre	N	-	5 (L or T)	N	N	44,56,30	Latest style. Suits 90/3
Naim NAC72	622	Pre	N	-	2MM/MC, L,2T	N	N	21,76,30	Ugradable with PSU, MC I/P
Naim NAP140	634	Pwr	-	45	-	-	-	21,76,30	
Naim NAP180	898	Pwr	-	60	-	-	-	43,76,30	
Naim NAP135	1424	Pwr	-	70	-	-	-	43,76,30	
Naim NAP250	1424	Pwr	-	70	-	-	-	43,76,30	
Naim NAC82	1880	Pre	N	-	6 (L or T)	N	Y	43,76,30	
Naim NAC52	4741	Pre	N	-	6 (see note)	N	Y	43,76,30	Optional phono board
Nakamichi IA3	350	Int	N	40	3L,2T	N	N	43,7,32	
Nakamichi IA2	600	Int	N	50	MM/MC,3L,2T	Y	Y	43,12,36	
Nakamichi IA1	750	Int	N	80	MM/MC,3L,2T	Y	Y	43,12,36	
NVA P-50	260	Pre	N	-	3L,1T	N	N	-	
NVA AP-20CD	290	Int	N	30	3L,1T	N	N	-	
NVA AP-20	340	Int	N	30	MM/MC,3L,1T	N	N	-	
NVA P-90	340	Pre	N		5L.	N	N	-	
NVA TSS (Pre)	420	Pre	N	-	5L,1T	N	N	-	
NVA AP-35CD	450	Int	N	50	3L,2T	N	N	-	
NVA A60	470	Pwr	-	60	-	-	-	-	
NVA A70	470	Pwr	-	70	-	-	-	-	Mono
NVA AP-35	500	Int	N	50	MM/MC,3L,1T	N	N	-	
NVA A80	760	Pwr	-	70	-	-	-	-	Mono
NVA T1S	1100	Int	N	60	5L,1T	N	N	-	
NVA TCS	2100	Int	N	70	5L,1T	N	N	-	
NVA TDS	2600	Pwr	-	70	-	-	-	-	Mono
NVA TSS (Power)	3300	Pwr	-	70	-	-	-	-	
NVA TUS	5000	Pwr	-	80	-	-	-	-	1x Monoblock
Onix OA30	300	Int	N	40	5L,1T	Y	N	43,77,33	
Onix OA24	400	Pre	N	-	MM/MC,2L,2T	N	N	75,23,37	Internally switchable MM/MC
Onix OA401	400	Pwr	-	50		-		75,23,37	With internal supply for OA24
Onix OA21S	430	Int	N	50	MM/MC,3L,1T	N	N	75,23,37	
Onix OA31	480	Int	N	60	MM/MC,4L,1T	Y	N	43,77,33	
Onix OA601	699	Pwr	-	70		-		75,46,36	Regulated PSU
Onix OA801	849	Pwr	-	190		-		75,46,36	2x monoblocks, massive PSU
Onkyo A801	200	Int	N	40	MM,3L,2T	Y	N	46,12,33	
Onkyo A803	260	Int	N	60	MM/MC,3L,2T	Y	Y	46,12,33	
Onkyo A-911	350	Int	N	70	MM,3L,2T	Y	Y	-	Mini component, 4ohm rating
Onkyo A850	370	Int	N	60	MM/MC,3L,2T	Y	Y	46,15,35	
Orelle SC-200	400	Pre	N	-	6L,1T	N	N	44,7,28	MM/MC option
Orelle SA-020.3	499	Int	N	60	6L,1T	N	N	-	MM/MC option, MOSFET
Orelle SP150	499	Pwr	-	75	-	-	-	44,7,28	MOSFET, vdH wiring
Papworth PPA6	0	Pre	N	-	6L	N	N	25,13,33	Bi-mono valve
Papworth PPA6/P	0	Pre	N	-	MM,MC,6L	N	N	25,13,33	Bi-mono valve
Papworth TVA50	1425	Pwr	N	50	-	N	N	43,19,33	Tube stereo
Papworth M100	2645	Pwr	N	100	-	N	N	25,17,38	Tube monoblock
Papworth M200	3825	Pwr	N	200	-	N	N	46,20,31	Tube monoblock
Philips FA930	200	Int	N	65	MM.2L,3T	Y	Y	44,14.30	
Pioneer A-102	130	Int	N	25	MM,2L,2T	Y	N	42,11,29	
Pioneer A-202	170	Int	N	35	MM,2L,2T	Y	N	42,11,29	
Pioneer A-302R	200	Int	N	30	MM,3L,2T	Y	Y	42,13,34	
Pioneer A-300X	230	Int	N	30	MM,4L,2T	Y	N	42,13,36	
Pioneer A-400	280	Int	N	50	MM/MC	Y	N	42,13,36	
Pioneer A-400X	300	Int	N	50	MM/MC4,2	Y	N	42,13,36	
Pioneer A-502R	300	Int	N	55	MM,3L,2T	Y	Y	42,13,36	
Pioneer A-502R-G	310	Int	N	55	MM,3L,2T	Y	Y	42,13,36	Satin gold A-502R
Pioneer A-602	350	Int	N	70	MM/MC	Y	N	42,17,44	
Pioneer VSA-701S	500	Int	Y	55	MM.2L,2T,5V	Y	Y	42,17,42	Dolby Pro Logic
Pioneer C-73	550	Pre	N	-	MM/MC,3L,1T	Y	N	46,17,42	
Pioneer VSA-D802S	600	Int	Y	55	MM.2L,2T,5V	Y	Y	42,17,42	Dolby Pro Logic
Pioneer M-73	750	Pwr	N	110	-	Y	N	46,17,43	Class A/B switchable
PS Audio 6.1	799	Pre	N	-	4L,1T	N	N	43,6,19	Outboard PSU

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see p123

Audiolab 8000A	450	Int	N	60	MM,MC,1T,3T	Y	N	45,8,36	Preout/main in

The Forefront of Technology



aiwa
DIGITAL AUDIO & VIDEO



Model No: **ADF-450**

Bill Hutchinson INNOVATION AWARD

• Dolby B & C • Dolby HX-Pro • Feather touch IC Logic Control
• Amorphous alloy head • Record Mute
• Anti-Modulation Tape Stabiliser (AMTS) • Fine Bias adjustment
• System remote capable • 8 point LED Level Indicator • Music Sensor
• Timer Operation • Auto tape selector • PC.OCC Wire

Considerable time and effort has gone into the creation of the Bill Hutchinson Innovation Award Scheme, drawing from more than two decades of experience and expertise.

The Innovation Award is designed to assist you in identifying state of the art equipment that matches your expectations whilst being of a build quality that ensures many years of enjoyment.

A list of priorities have been drawn up in order to establish the framework of the Award Scheme. The main priorities are, sound, value, construction, design, style and originality.

The choice of dealer should be given the same care and attention as is given to your choice of equipment, so that you may receive the kind of quality service and advice that compliments equipment of the same standard. The type of service you ultimately receive will reflect on your overall enjoyment of the product. A long-term association with a professional dealer has real benefits and will serve as your personal contact for information and advice on the Manufacturers latest Innovations

If it is not possible to visit a Bill Hutchinson Hi-Fi AV Centre, simply contact the Manufacturer for details of your nearest authorised stockist.

AIWA 081-897 7000

Bill Hutchinson

Hi-Fi • CD • Audio Visual Centre

• GLASGOW 43 Hope Street. Tel: **041-248 2857** • EDINBURGH 40A Queensferry Street. Tel: **031-220 0909**
• LEEDS 26-28 Woodhouse Lane. Tel: **0532 427777** • NEWCASTLE 87A Clayton Street. Tel: **091-230 3600**
• MANCHESTER 50/52 Deansgate. Tel: **061-832 1600**





Key to amplifiers
Price - typical retail, to nearest pound.
Power - output power in watts, per channel, RMS.
Inputs - MM/MC - phono moving coil and moving magnet, L - line (CD, aux etc), T - tape.
A/V - includes Dolby Surround or Pro Logic decoder and amplification.

Type: Int - integrated, Pre - preamplifier, Pwr - power amplifier.
Headphone - Y - yes, N - no.
Remote - Y - yes, N - no.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	A/V	Power	Inputs	Headphones	Remote	Size	Special
AMPLIFIERS									
PS Audio Phono Link	799	Pre	N	-	MM/MC	N	N	43,6,19	Outboard PSU
PS Audio 5.6	1090	Pre	N	-	MM/MC,3L,2T	N	N	43,6,19	Outboard PSU
PS Audio 100 Delta	1499	Pwr	-	120	-	-	-	42,15,35	
PS Audio 200 Delta	2279	Pwr	-	200	-	-	-	42,15,45	
PS Audio 200b Delta	2490	Pwr	-	200	-	-	-	42,15,45	
PS Audio 250 Delta	2980	Pwr	-	250	-	-	-	42,15,45	Monoblocks
QED Vector One	250	Pre	N	-	4L,1T	N	N	-	
QED C-300CD	259	Pre	N	-	MM/MC,4L,1T	N	N	-	
QED C-300PA	329	Pre	N	-	MM/MC,4L,1T	N	N	-	
QED A270CD	369	Int	N	55	MM,MC,3L,1T	Y	N	-	
QED Vector Reference	399	Pre	N	-	5L,1T	N	N	-	
QED A270PA	429	Int	N	55	MM/MC,4L,1T	N	N	-	
Quad 306	350	Pwr	N	70	-	N	N	33,7,21	Stereo power amp
Quad 34	398	Pre	N	-	MM,2L,T	N	N	33,7,21	Optional MC phono input
Quad 606	690	Pwr	N	140	-	-	N	33,14,24	Stereo power amp
Quad 66	863	Pre	N	35	MM,4L,2T	N	Y	33,8,26	Variable inputs, inc R/C
R Developments Kalypso	499	Int	N	15	5L	-	-	-	
R Developments Romulus	998	Int	N	35	5L	-	-	-	
Rega Brio	198	Int	N	30	MM,3L,1T	N	N	43,7,15	
Rega Elex	359	Int	N	50	MM,3L,1T	N	N	43,7,25	
Rega Elicit	730	Int	N	70	MM,MC,3L,1T	N	N	43,7,25	
Roksan ROK-L2	995	Pre	N	-	4L.1T	N	N	-	
Roksan ROK-S1	1495	Pwr	N	-	-	N	N	-	
Roksan ROK-L1	2250	Pre	N	-	4L,1T	N	N	-	
Roksan ROK-M1	4500	Pwr	N	-	-	N	N	-	Pair monoblocks
Rose RV-23	450	Pre	N	-	MM,2L,1T	N	N	33,9,26	Tube, zero feedback
Rose RV-23S	525	Pre	N	-	MM/MC,2L,2T	N	N	33,9,26	Tube, separate PSU
Rose RP-190 (Dual Mode)	550	Pwr	N	75	-	-	-	33,9,30	Low feedback monoblock (x2)
Rotel RC970BX	150	Pre	N	-	3L,2T	Y	N	44,8,29	
Rotel RA930AX	175	Int	N	30	MM,3L1T	Y	N	44,9,31	
Rotel RA935BX	225	Int	N	50	3L,2T	Y	N	44,10,35	Separate listen/rec selectors
Rotel RB970BX	225	Pwr	N	60	-	-	-	44,8,29	
Rotel RA960BX2	325	Int	N	60	MM/MC,3L,2T	Y	N	44,9,35	Separate listen/rec selectors
Rotel RC980BX	350	Pre	N	-	MM/MC,3L,2T	Y	N	44,7,33	
Rotel RA980BX	425	Int	N	100	MM/MC,3L,2T	Y	N	44,12,34	Separate listen/rec selectors
Rotel RB980BX	450	Pwr	N	120	-	-	-	44,12,33	
Rotel RC990BX	500	Pre	N	-	MM/MC,3L,2T	Y	Y	44,7,33	
Rotel RB990BX	750	Pwr	N	200	-	-	-	44,12,38	
Sansui AU-X117	170	Int	N	30	MM,3L,1T	Y	N	-	
Sansui AU-X3172.	275	Int	N	40	MM,3L,1T	Y	N	-	
Sansui AU-X417R	280	Int	N	45	MM,3L,2T	Y	N	-	
Sansui AU-X517R	450	Int	N	60	MM/MC,3L,2T	Y	Y	-	
Sansui AU-Alpha 607	1300	Int	N	90	MM/MC,2L,1T	Y	Y	-	
Sansui AU-Alpha707	1500	Int	N	90	MM/MC, 4L3T	Y	Y	-	Built in BS DAC
Sentec PP9 RIAA MM	500	Pre	N	-	MM	N	N	5,12,23	Phono step-up - MM
Sentec PP9 RIAA MC	600	Pre	N	-	MC	N	N	5,12,23	Phono step-up - MC
Sentec SC9	800	Pre	N	-	4L,2T	Y	N	34,7,15	
Sentec PA9	1000	Pwr	N	60	-	-	-	20,8,30	Monoblocks
Shearne Phase II	549	Int	N	50	4L,2T	N	N	-	
Shearne Phase 1 Pre	1099	Pre	N	-	MM/MC/4L,2T	N	N	-	
Shearne Phase 1 Power	1199	Pwr	-	80		-	-		Dual mono
Sherwood Al 2210	60	Int	N	30	MM,3L,1T	Y	N	-	
Sherwood Al 1110	100	Int	N	55	MM,4L,1T	Y	N	-	
Sherwood Al 2010	120	Int	N	30	MM,4L,2T	Y	N	-	
Sherwood Al 3010	140	Int	N	40	MM,4L,2T	Y	N	-	
Sherwood Al 5010	170	Int	N	70	MM,3L,2T	Y	N	-	
Sherwood AM/AVP8500	800	-	Y	230	-	Y	Y	-	A/V Pre/power amp
Sirius Control Unit	720	Pre	N	-	6L,2T	N	N	23,5,19	Passive preamp
Sirius 7B	2492	Pwr	N	200	-	N	N	30,23,19	1x monoblock
Sonic Link DM20	349	Int	N	25	MM,3L,1T	Y	N	23,8,43	
Sonic Link DM20 Gold	598	Int	N	30	MM/MC,3L,1T	Y	N	23,8,43	
Sonic Link DM30	725	Int	N	25	MM/MC,3L,1T	N	N	23,8,43	
Sony TAF211B	150	Int	N	30	MM/2L	Y	N	43,14,31	Source direct
Sony TAF242B	200	Int	N	60	MM/2L	Y	N	43,14.31	
Sony TAF444E	250	Int	N	40	MM,3L,2T	Y	N	43,15,38	MOSFET power stage
Sony TAF542E	300	Int	N	90	MM/MC,3L,2T	Y	N	43,15,38	UK optimised sound
Sony TA-AV570B	400	Int	Y	70	MM,4L,5T	Y	N	43,15,36	Dolby Pro Logic
Stemfoort Audio SF60	549	Int	N	60	4L,1T	N	N	43,8,35	Passive line amplifier
Stemfoort Audio SF100	849	Int	N	100	4L,1T	N	N	43,8,40	Passive line amplifier
Synergy 3080	0	N	15	MM,	N	N	-		
Teac A-X1030	180	Int	N	40	MM,3L,2T	Y	N	44,13,36	Mic input
Teac A-X3030	220	Int	N	60	MM,3L,2T	Y	N	44,13,36	Mic input
Teac A-X5030	260	Int	N	75	MM/MC,3L,2T	Y	N	44,16,36	
Technics SU-VZ220	150	Int	N	40	MM,2L,1T	Y	N	43,13,32	A/B speaker select
Technics SU-VZ320	190	Int	N	50	MC/MM,3L,2T	Y	Y	43,13,32	
Technics SU-A600	200	Int	N	40	MC/MM,3L,2T	Y	N	43,13,32	
Technics SU-A700	250	Int	N	45	MC/MM,3L,2T	Y	Y	43,13,32	
Technics SU-A800	330	Int	N	55	MC/MM,3L,2T	N	Y	43,14,37	
Technics SU-A900	400	Int	N	90	MC/MM,3L,2T	N	Y	43,14,37	
Technics SU-C2000	700	Pre	N	-	-	N	Y	45,13,35	
Technics SE-A2000	1050	Pwr	-	100	-	-	Y	45,19,44	Meters, R-Core, MOS AA
Tesserac TAADA	1500	Pre	N	-	MM/MC	N	N	-	
Tesserac TALA	1500	Pre	N	-	5L,1T	N	N	-	
Tesserac TAHA	1800	Pre	N	-	MC,	Y	N	-	
Tesserac TAP-A	5300	Pre	N	-	MM,3L,2T	N	N	-	

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see p123

Audiolab 8000A	450	Int	N	60	MM,MC,1T,3T	Y	N	45,8,36	Preout/main in



Key to cassette decks
Price - typical retail, to nearest pound.
Type - T - twin transports, allowing tape to tape dubbing, sequential play etc; S - Single transport, AR - auto-reverse.
Dolby - B (10dB noise reduction), C (20dB), S (24dB). B is standard for prerecorded material.

Heads - 2 - combination record/play heads; 3 - independent record/play heads, allowing real time off tape monitoring.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	A/V	Power	Inputs	Headphones	Remote	Size	Special
AMPLIFIERS									
Tesserac TAMP-60	7350	Pwr	-	60		-		-	2x Monoblocks
Thule IA50	599	Int	N	50	4L,1T	N	N	-	Fully balanced operation
Thule IA100	899	Int	N	50	4L,1T	N	N	-	Fully balanced operation
TOCA 'A'22	1500	Pwr	N	22	-	-	-	42,15,18	Class A
TOCA 'A' 1	2000	Pre	N	-	MM/MC,4L,2T	Y	Y	42,8,24	
TOCA 'A'50	2500	Pwr	N	50	-	-	-	42,15,18	Class A
Triangle TE60	549	Int	N	60	5L,1T	Y	N	-	
Triangle Nemo Allion 02	1550	Int	N	80	5L,2T	N	N	-	
Tube Tech Seer Line	575	Pre	N	-	5L,1T	N	N	35,8,25	
Tube Tech Seer Phono	649	Pre	N	-	MM,4L,1T	N	N	35,8,25	
TT Unisis Power Amp	1099	Pwr	N	30	-	N	N	35,17,27	Power amp to match Unisys
Tube Tech Prophet	1199	Pre	N	-	4L,1T	N	N	35,8,25	Two box pre, separate PSU
TT Unisis Super Line	1399	Int	N	30	4L,1T	N	N	35,17,27	Line level version of Unisys
Tube Tech Unisis	1399	Int	N	30	MM,3L,1T	N	N	35,17,27	
Tube Tech Genesis	2599	Pwr	N	100	-	N	N	35,15,27	2x monoblocks
Tube Tech Synergy	3900	Int	N	150	5L,1T,	N	Y	47,18,47	
Woodside SC27 Line	705	Pre	N	-	2L,1T	N	N	-	
Woodside SC27 MM	881	Pre	N	-	MM,2L,1T	N	N	-	
Woodside ISA230 Disc	899	Int	N	30	MM,2L,1T	N	N	-	
Woodside ISA230 Line	899	Int	N	30	4L,2T	N	N	-	
Woodside ISA 2.40	949	Pwr	-	40		-		-	
Woodside SC27 MC	999	Pre	N	-	MC,2L,1T	N	N	-	
Woodside MA50 Class A	1224	Pwr	-	50		-		-	1 channel monoblock
Woodside STA35	1323	Pwr	-	35		-		-	
Woodside SC25 Line	1420	Pre	N	-	2L,2T	N	N	-	
Woodside SC26 Phono	1931	Pre	N	-	MM/MC,3L,2T	N	N	-	
Yamaha AX-470	200	Int	N	95	MM,MC,3L,2T	Y	N	-	
YBA Integre Line	999	Int	N	45	4L,1T	N	N	43,9,33	
YBA 3 Power	1199	Pwr	-	45		-		43,9,33	
YBA Integre	1199	Int	N	45	MM,4L,1T	N	N	43,9,33	
YBA 3	1250	Pre	N	-	MM,3L,1T	N	N	43,9,33	
YBA 2	1699	Pre	N	-	MM,3L,1T	N	N	43,9,33	
YBA 2 Power	2150	Pwr	-	70	-	-	-	43,9,33	
YBA 2 Power	2150	Pwr	-	70		-		43,9,33	
YBA 1	3750	Pre	N	-	MC,4L,1T	N	N	43,9,33	
YBA 1 Power	4250	Pwr	-	85		-		43,14,33	

Model	Price	Type	Dolby NR	Dolby HX Pro	Heads	Size	Special
CASSETTE DECKS							
Aiwa AD-F450	120	S	B,C	Y	2	-	Super DX head
Aiwa AD-WX828	200	T	BC	Y	2	-	Twin auto reverse, remote
Aiwa AD-F850	230	S	B,C	Y	3	-	Super DX head
Aiwa AD-WX929	250	T	BC	Y	2	-	Twin record, quick auto revers
Aiwa XK-S7000	550	S	B,C,S	Y	3	-	6N head coils, built in DAC
Aiwa XK-S9000	700	S	B,C,S	Y	3	-	6N head coils, built in DAC
Arcam Delta 100	850	S	B,C,S	N	3	43,12,34	Dolby S
Denon DRM-540	160	S	B,C	Y	2	44,13,28	
Denon DRS-610	200	S	B,C	Y	2	44,13,31	Drawer loading
Denon DRW-760	250	T	B,C	Y	2	44,13,28	
Denon DRM-710	260	S	B,C	Y	3	44,13,28	Dual capstan
Denon DRS-810	300	S	B,C	Y	3	44,13,32	
Dual CC8000 RS	200	T	B,C	N	2	44	Remote through 9000RS
Goodmans Delta 700	100	T	B	N	2	-	
Goodmans GSW650	130	T	B	N	2	-	Both auto-reverse
Grundig CCF210	150	T,AR	B	N	2	36,12,30	AMS, CD copy, hi speed dub
Grundig CCF2	170	T	B	N	2	44,13,30	AMS, system R/C, display of
Grundig CCF310	190	T,AR	B,C	Y	2	36,12,30	Elapsed time, CD copy, AMS
Grundig CCF3	200	T,AR	B,C	Y	2	44,13,30	Elapsed time, display switch
Grundig CF4	250	S	B,C	Y	3	44,13,30	Manual bias, AMS, monitor
Harman-Kardon TD4400	349	S	B/C	Y	2	45,13,35	
Harman-Kardon TD4500	499	S	B/C	Y	2	45,13,35	
Harman-Kardon DC5300	499	T	B,C	N	2	45,13,35	
Harman-Kardon DC5500	599	T	B,C	Y	2	45,13,35	
Harman-Kardon TD4600	699	S	B,C,S	Y	2	45,13,35	
Harman-Kardon DC5700	699	T	B,C	Y	2	45,13,35	Both transports record
Harman-Kardon TD4800	1299	S	B,C,S	Y	3	45,13,35	
JVC TD-W106BK	120	T	B	N	2	44,13,24	Twin, one recording deck
JVC TD-X352BK	150	S	B,C	Y	2	44,13,33	
JVC TD-W208BK	170	T	B,C	Y	2	44,13,33	Twin, one recording deck
JVC TD-W308BK	200	T,AR	B,C	Y	2	44,13,33	Twin, one recording deck
JVC TD-V562BK	220	S	B,C	Y	3	44,13,33	Cassette stabiliser
JVC TD-W708BK	250	T,AR	B,C	Y	2	44,13,33	Twin record/play
JVC TD-V662BK	270	S	B,C	Y	3	44,13,33	Dual capstan
Kenwood KX-3050	170	S	B,C	Y	2	44,12,37	Tape path stabiliser
Kenwood KX-W4060	180	T	B,C	Y	2	44,13,30	Computer controlled recording
Kenwood KX-W6060	200	T	B,C	Y	2	44,13,30	Auto bias
Kenwood KX-5530	220	S,AR	B,C	Y	2	44,12,30	Auto bias
Kenwood KX-5050	230	S	B,C	Y	2	44,12,30	Auto bias
Kenwood KX-W8060	260	T	B,C	Y	2	44,13,30	Auto bias
Kenwood KX-7050	330	S	B,C	Y	3	44,13,30	Auto tape calibration
Kenwood KX-7050S	400	S	B,C	Y	3	44,13,30	Auto tape calibration
Kenwood KX-9050S	550	S	B,C	Y	3	44,13,30	Auto tape calibration

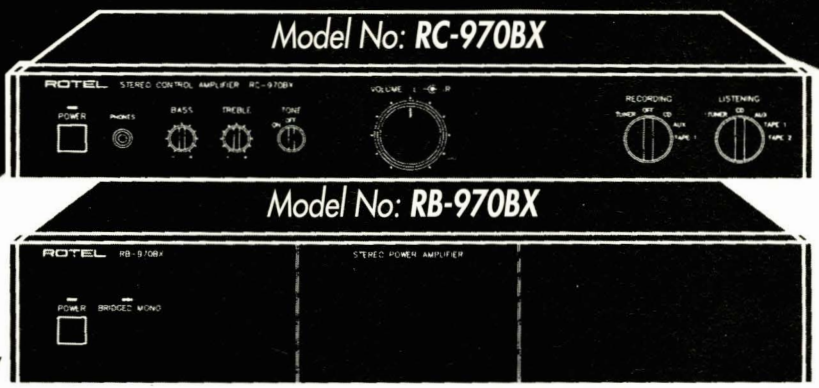
Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123

Akai GX-W45	320	R	B,C	Y	2	N/A		Remote control

The Forefront of Technology



ROTEL



Bill Hutchinson INNOVATION AWARD

- **RC-970BX STEREO PRE-AMPLIFIER**
  - *Line inputs only • Tone controls • Tone defeat*
  - *Independent record out • Twin outputs*
- **RB-970BX STEREO POWER AMPLIFIER**
  - *60 Watts RMS Per Channel • 200 Watts RMS Mono*
  - *High Current capability • Twin power supplies*

Considerable time and effort has gone into the creation of the Bill Hutchinson Innovation Award Scheme, drawing from more than two decades of experience and expertise.

The Innovation Award is designed to assist you in identifying state of the art equipment that matches your expectations whilst being of a build quality that ensures many years of enjoyment.

A list of priorities have been drawn up in order to establish the framework of the Award Scheme. The main priorities are, sound, value, construction, design, style and originality.

The choice of dealer should be given the same care and attention as is given to your choice of equipment, so that you may receive the kind of quality service and advice that compliments equipment of the same standard. The type of service you ultimately receive will reflect on your overall enjoyment of the product. A long-term association with a professional dealer has real benefits and will serve as your personal contact for information and advice on the Manufacturers latest Innovations

If it is not possible to visit a Bill Hutchinson Hi-Fi AV Centre, simply contact the Manufacturer for details of your nearest authorised stockist.

ROTEL 0908 317707

Bill Hutchinson

Hi-Fi • CD • Audio Visual Centre

- GLASGOW 43 Hope Street. Tel: **041-248 2857** • EDINBURGH 40A Queensferry Street. Tel: **031-220 0909**
- LEEDS 26-28 Woodhouse Lane. Tel: **0532 427777** • NEWCASTLE 87A Clayton Street. Tel: **091-230 3600**
- MANCHESTER 50/52 Deansgate. Tel: **061-832 1600**





Key to cassette decks
Price - typical retail, to nearest pound.
Type - T - twin transports, allowing tape to tape dubbing, sequential play etc; S - Single transport, AR - auto-reverse.
Dolby - B (10dB noise reduction), C (20dB), S (24dB). B is standard for prerecorded material.

Heads - 2 - combination record/play heads; 3 - independent record/play heads, allowing real time off tape monitoring.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Dolby NR	Dolby HX Pro	Heads	Size	Special
CASSETTE DECKS							
Marantz SD-53	200	S	B,C	Y	2	43,14,30	D-bus
Marantz SD-415 II	210	T	B,C	Y	2	43,14,30	D-bus, mic mixing
Marantz SD-63	250	S	B,C	Y	3	43,14,30	D-bus
NAD 602	200	S	B,C	Y	2	-	Play Trim
NAD Monitor 6100	299	S	B,C	Y	2	-	Play Trim, remote cntrl, Dyneq
Nakamichi DR-3	400	S	B,C	N	2	43,10,32	
Nakamichi DR-2	600	S	B,C	N	3	43,10,32	Diffused resonance transport
Nakamichi DR-1	850	S	B,C	N	3	43,10,32	Manual azimuth calibration
Nakamichi CR-7E	1995	S	B,C	N	3	44,14,30	Auto tape calibration, R/C
Nakamichi Dragon	2350	AR	B,C	N	3	45,14,30	Auto azimuth correct
Onkyo TA201	200	S	B,C	Y	2	46,12,13	
Onkyo TA-RW313	250	T	B,C	Y	2	46,12,31	
Onkyo KR-609	350	AR	B,C	Y	-	-	Mini component
Onkyo TA250	350	S	B,C	Y	3	46,12,31	
Onkyo K-W606	370	T,AR	B,C	Y	2	28,12,32	Mini component
Onkyo K-611	430	AR	B,C	Y	-	3	Mini component
Pioneer CT-S220	170	S	B,C	Y	2	42,13,28	System remote sockets
Pioneer CT-W420R	200	T,AR	B,C	Y	2	42,13,25	Logic, double auto reverse
Pioneer CT-S320	200	S	B,C	Y	2	42,13,28	Auto tape setup
Pioneer CT-W620R	250	T,AR	B,C	Y	2	42,13,25	Auto tape setup
Pioneer CT-S420	250	S	B,C	Y	3	42,13,28	Auto tape setup, CD synch
Pioneer CT-S520	280	S	B,C	Y	3	42,13,28	Remote control CT-S420
Pioneer CT-W820R	300	T,AR	B,C	Y	2	42,14,25	Remote control, parallel recor
Pioneer CT-S620	330	S	B,C	Y	3	42,14,38	Slant Z-mechanism
Pioneer CT-S620-G	340	S	B,C	Y	3	42,14,38	Satin gold CT-S620
Pioneer CT-M601R	380	AR	B,C	Y	2	42,14,38	Five tape continuous record/pl
Pioneer CT-920S	680	S	B,C,S	Y	3	42,14,38	Slant Z-mechanism
Pioneer CT-95	1000	S	B,C,S	Y	3	44,15,38	Copper plated chassis
Sansui D-X117HX	220	S	B,C	Y	2	-	
Sherwood DS1150	80	S	B,C	N	2	-	
Sherwood DS1010C	100	S	B,C	Y	2	-	Mic input
Sherwood DD1030C	100	T	B	N	2	-	
Sherwood DS3010C	120	S	B,C	Y	2	-	
Sherwood DD3010C	150	T	B,C	Y	2	-	
Sherwood DS5010DC	170	S	B,C	Y	2	-	
Sony TCFX211B	100	S	B,C	N	2	43,12,29	
Sony TCK 215B	130	S	B,C	Y	2	43,12,31	Tape calibration
Sony TCK311B	130	S	B,C	Y	2	43,12,31	Auto calibration
Sony TCW445B	150	T	B,C	Y	2	43,12,31	Full logic control
Sony TCK415B	180	S	B,C	Y	3	43,12,31	UK optimised sound
Sony TCWR545B	200	T	B,C	Y	2	43,12,29	Auto calibration
Sony TCWR645S	250	T	B,C,S	Y	2	43,12,31	UK optimised sound
Sony TCK511S	250	S	B,C,S	Y	3	43,12,31	UK optimised sound
Sony TCK611S	300	S	B,C,S	Y	3	43,12,30	UK optimised sound
Teac V-600	150	S	B,C	Y	2		Fine bias
Teac W-700R	220	T,AR	B,C	Y	2	44,15,29	
Teac V-1010	250	S	B,C	Y	3	44,15,29	Fine bias
Teac V-3010	350	S	B,C	Y	3	44,15,36	Copper chassis, remote
Teac V-2020S	380	S	B,C	Y	3	44,15,29	Tape calibration
Teac W-6000R	450	T,AR	B,C	Y	2	44,15,33	Pitch control, remote
Teac R-9000S	500	AR	B,C	Y	3	49,15,36	Remote control
Teac V-8000S	700	S	B,C,S	Y	3	48,15,36	Direct drive, tape cal, remote
Technics RS-TR232	180	T,AR	B,C	Y	2	43,14,29	Play transport unidirectional
Technics RS-BX404	180	AR	B,C	Y	2	43,13,29	Mic inputs, auto tape cal
Technics RS-TR333	200	T,AR	B,C	Y	2	43,14,29	
Technics RS-BX646	230	S	B,C	Y	3	43,13,30	Auto tape cal, remote ready
Technics RS-TR515	250	T,AR	B,C	Y	2	43,14,29	Optical quick reverse
Technics RS-BX747	300	S	B,C	Y	3	43,13,30	Fine bias adj, THC lo-red base
Technics RS-TR979	380	T,AR	B,C	Y	2	43,13,28	Both decks record, quick rev
Yamaha KX-650	260	S	B/C	Y	3	-	
Yamaha KX-W952	500	T	B,C	Y	2	-	

DON'T MISS NEXT MONTH'S FREE SUMMER SOUND SPECTACULAR. FOR MUSIC ON THE BEACH, ON THE PLANE, TRAIN AND IN THE AUTOMOBILE — JUST ABOUT ANYWHERE YOU CARE TO ROAM. THIS IS THE ULTIMATE GUIDE TO PORTABLES AND PERSONALS.

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123



Key to compact disc players, transports and DACs
Price - typical retail, to nearest pound.
DAC Type - MB - multibit, 1 bit - single bit, BS - Bitstream, DS - Delta Sigma, M - MASH, Hybrid - combines multibit and single bit.
Outputs Digital: Opt - optical (usually Toslink), El - electrical (usually coaxial S/PDIF).

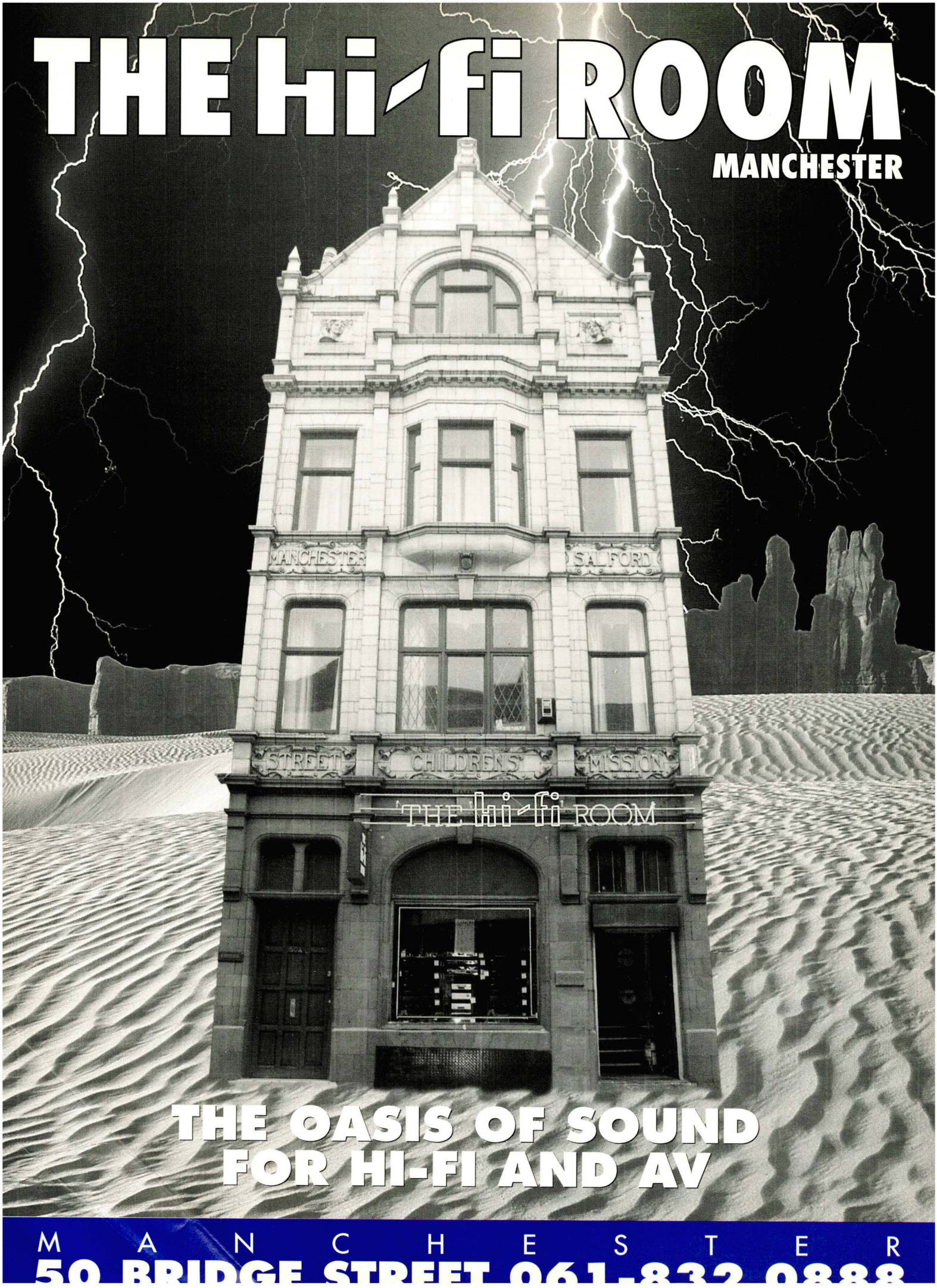
Remote Control - Y - yes, N - No.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Dac Type	Outputs Dig	Remote	Size	Special
CD PLAYERS						
Aiwa XC-300	150	1bit	O	Y	-	
Aiwa DX-M100	150	1bit	-	Y	-	Midi size
Aiwa XC-750	200	1bit	-	Y	-	Peak search. record calibratio
Aiwa XC-950	250	1bit	-	Y	-	Peak search. record calibratio
AMC CD6	349	BS	E,O	Y	-	
Arcam Alpha 5	450	MB	E		43,8,27	
Arcam Delta 270	800	Hybrid	2E		43,9,28	
Audiomeca Kreatura	1199	MB	E	Y	25,14,39	Heavily modified CDM
Aura CD50	400	BS	E	Y	43,7,34	
Aura CD50CHR	450	BS	E	Y	43,7,34	Chrome finish
AVI S2000MC	999	MB	E	Y	-	
Cambs CD200 Mk II	150	1bit	-	Y	42,9,29	
Cambridge Audio CD200	150	MB	N	Y	42,9,29	Can play in reverse order
Denon DCD-595	180	MB	-	Y	44,11,29	Digital attenuator
Denon DCD-695	200	MB	E	Y	44,11,28	
Denon DCD-890	270	MB	E	Y	44,12,29	UK specified components
Denon DCD-1290	330	MB	O	Y	44,13,32	UK specified components
Denon DCD-2560	600	MB	E,O	Y	44,13,35	5-fold PSU
Eclipse CD101	80	MB	-	Y	36,8,29	
Eclipse CD420	100	MB	-	Y	42,8,29	
Eclipse CD720	120	MB	-	Y	42,8,29	
Goodmans Delta 700	110	MB	N	Y	-	
Goodmans GCD360R	120	MB	N	Y	-	
Grundig CD210	120	BS	E	Y	36,8,30	30 mem, random repeat
Grundig CD1	140	BS	E	Y	44,9,30	
Grundig CD2	190	BS	E	Y	44,9,30	
Grundig CD3	240	BS	E	Y	44,9,30	FTS, display off, fade, DAC7
Harman-Kardon HD7325	299	BS	E,O	Y	45,10,33	
Harman-Kardon HD7425	349	MB	E	Y	45,10,33	
Harman-Kardon HD7525	449	MB	E	Y	45,10,33	
Harman-Kardon HD7625	549	MB	E	Y	45,10,33	
Harman-Kardon HD7725	799	MB	E,O	Y	45,10,33	
Jadis JS-1	8068	MB	-	-	-	
JVC XL-V174BX	140	1bit	-	Y	44,10,28	
JVC XL-V274BK	160	1bit	-	Y	44,10,28	
JVC XL-M408BK	300	1bit	-	Y	44,13,32	Six disc
JVC XL-Z1050TN	500	1bit	E	Y	45,11,34	
Kenwood DP-2050	170	1bit	-	Y	44,10,26	Central mechanism
Kenwood DP-R4060	200	1bit	-	Y	44,12,38	Five disc carousel
Kenwood DP-3050	200	1bit	-	Y	44,10,26	High precision master clock
Kenwood DP-M6060	270	1bit	-	Y	44,12,36	Multiplay CD 6+1 disc
Kenwood DP-5050	270	1bit	-	Y	44,12,31	High rigidity chassis
Kenwood DP-7050	350	1bit	O	Y	44,12,31	High rigidity chassis
Krell CD DSPII 5000	5000	MB	2E	Y	42,13,28	Has digital in, balanced out
Linn Mimik	798	DS	E	Y	32,8,33	BNC digital
Linn Karik	1497	DS	E,O	Y	32,8,33	BNC digital
Luxman D500X's	3750	MB	O	Y	44,12,39	Top loading
Marantz CD-53	200	BS	E	Y	43,9,30	New transport, DAC, circuit
Marantz CD-52 II	230	BS	E	Y	42,12,30	Selected passive components
Marantz CD-63	250	BS	E,O	Y	42,9,30	As CD-53
Marantz CD-52 II SE	300	BS	E	Y	42,12,28	Selected passive components
Marantz CD-72SE	600	BS	E,O	Y	42,12,28	As CD-52, 4V output
Marantz CD-10	1200	BS	E,O	Y	46,14,36	Twin DAC-7, heavy build
McIntosh MCD7008	1895	MB	E	Y	-	Seven disc multiplayer
Meridian 506	795	DS	E,O	N	33,9,34	
Meridian 606	1350	1bit	3E,O	N	-	
Meridian 508	1350	DS	E,O	N	33,9,34	
Metaxas PHOS	1750	BS	E,O	Y	42,16,42	
Micro-Seiki CD-M2DC	3695	MB	E	Y	-	
Micro-Seiki CDM2000X	4689	MB	E	Y	-	
Micromega Stage 1	450	BS	E	Y	43,28,88	Upgradable
Micromega Stage 2	600	BS	E	Y	43,28,88	Upgradable
Micromega Stage 3	800	BS	E	Y	43,28,88	Upgradable
Micromega Trio	6000	BS	E	Y	34,48,31	AES/Toslink digital output
Mission DAD5	300	BS	E	Y	37,11,29	Integrated CD player
Mission DAD7	900	MB	E	Y	22,8,36	
Mission Discmaster	1900	MB	E	Y	22,8,36	Two box player
Musical Fidelity CDT	519	MB	N	N	41,7,25	Tube output stage, top loading
Musical Fidelity FCD	1499	BS	2E,O	Y	49,12,33	XLR balanced out, tube o/p sta
NAD 501	180	BS	-	N	-	
NAD 502	220	M	E	Y	-	
NAD Monitor 5000	309	M	E	Y	-	
Naim CD3	898	MB	-	Y	32,6,30	1 box
Naim CDI	1677	MB	-	Y	43,16,30	One box, no digital output, to
Naim CD5	3254	MB	-	Y	43,16,30	Two box, no digital output, to
Nakamichi MB-4S	299	MB	-	Y	43,10,27	Multi-CD, 16 x 4 oversampling
Nakamichi CD4	380	MB	E	Y	43,10,32	
Nakamichi MB3	650	MB	-	Y	43,10,38	Multi CD, 18x8 oversampling
Nakamichi MB2	850	MB	E	Y	43,10,38	Multi-CD, 20x8 oversampling
NVA TES	1500	BS	E	Y	-	
Onix CD33	999	BS	-	-	43,8,33	DAC7
Onkyo DX710	200	1bit	O	Y	46,11,31	
Onkyo DX703	240	1bit	O	Y	46,11,31	
Onkyo C-711	290	1bit	O	Y	-	Mini component
Onkyo DX-C110	350	1bit	O	Y	-	

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Marantz CD-52 II SE 300 BS E Y 42,12,28 Selected passive components


THE hi-fi ROOM
MANCHESTER
MANCHESTER
SALFORD
STREET
CHILDREN'S
MISSION
THE hi-fi ROOM
THE OASIS OF SOUND
FOR HI-FI AND AV
MANCHESTER
50 BRIDGE STREET 061-832 0888



Key to compact disc players, transports and DACs
Price - typical retail, to nearest pound.
DAC Type - MB - multibit, 1 bit - single bit, BS - Bitstream, DS - Delta Sigma, M - MASH, Hybrid - combines multibit and single bit.
Outputs Digital: Opt - optical (usually Toslink), El - electrical (usually coaxial S/PDIF).

Remote Control - Y - yes, N - No.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Dac Type	Outputs Dig	Remote	Size	Special
CD PLAYERS						
Onkyo DX750	350	1bit	O	Y	46,11,31	
Orelle CD480	400	MB	E	Y	44,10,28	DC coupled
Orelle CD160	750	MB	E	Y	44,7,32	Passive filtering, DC coupled
Orelle CD260 II	900	MB	E	Y	44,7,32	Audiophile components, DC cpld
Philips CD732	140	BS	E	Y	44,11,30	
Philips CD920	160	BS	E	Y	44,11,30	
Philips CD930	200	BS	E	Y	44,13,30	
Philips CDC935	230	BS	E	Y	44,13,38	Five disc CD player
Pioneer PD-102	150	1-bit	-	N	42,11,28	Display off
Pioneer PD-202	170	1-bit	-	Y	42,11,28	As 101, variable output & remo
Pioneer PD-S502	230	1-bit	-	Y	42,11,29	Stable Platter Mechanism
Pioneer PD-S602	270	1-bit	O	Y	42,11,29	SPM, optical out
Pioneer PD-M602	270	1-bit	-	Y	42,11,30	Six disc
Pioneer PD-S702	300	1-bit	O	Y	42,13,27	SPM, Legato Link filter
Pioneer PD-M701	330	1-bit	-	Y	42,13,30	Six disc
Pioneer PD-S802	350	1-bit	E,O	Y	42,14,27	SPM, Legato Link filter
Pioneer PD-M901	450	1-bit	-	Y	42,13,33	Six disc, DSP soundfield contr
Pioneer PD-DM802	450	1-bit	-	Y	42,14,31	Dual magazine 12-disc
Pioneer PD-S901	499	1-bit	E,O	Y	42,13,33	SPM, Legato Link, Twin DAC
Pioneer PD-TM3	500	1-bit	-	Y	42,18,35	Triple magazine, 18-disc
Pioneer PD-77	1100	1-bit	E,O	Y	44,13,33	Satin gold finish
Pioneer PD-95	2500	1-bit	E,O	Y	44,16,34	Balanced out, Legato, SPM
Quad CD67	825	DS	E	Y	33,8,26	For use with 66 system
Roksan ATT-DP2P	1495	DS	E	Y	46,12,35	Player, four level isolation
Rotel RCD-945AX	230	BS	E	Y	44,10,32	
Rotel RCD-965BX	300	BS	E	Y	44,10,32	Audiophile components
Rotel RCD-965BX D	375	BS	E	Y	44,10,32	Discrete output
Rotel RCD-965BX LED	425	BS	E	Y	44,10,32	Discrete & slit foil caps
Sansui CD-270	180	BS	N	N	-	
Sansui CD-117K II	200	MB	N	N	-	
Sansui CD-X217i	200	MB	E	N	-	
Sansui CD-X317	250	BS	E,O	Y	-	
Sansui CD-X617	350	BS	E,O	Y	-	
Sentec Diana	1100	MB	E,O	N	12,5,23	20 bit
Sherwood CD3020R	130	BS	Y	N	-	
Sherwood CD5010R	160	BS	Y	N	-	
Sherwood CDC5030	200	1bit	N	Y	44,10,38	Five disc carousel
Sony CDP-M302	130	1bit	N	Y	36,10,33	Midi-size, full remote control
Sony CDP-312	150	1bit	-	Y	43,10,29	Digital servo
Sony CDP-C325M	230	1bit	N	Y	36,10,39	Midi size, 5-disc player
Sony CDP-C345	230	1bit	-	Y	43,13,39	Five disc player
Sony CDP-715E	250	1bit	O	Y	43,11,30	UK optimised sound
Sony CDP-915E	300	1bit	O	Y	43,11,36	UK optimised sound
Sony CDP-CX100	800	1bit	O	-	43,13,38	100 disc autochanger
Teac CD-P3500	200	BS	E	Y	44,12,28	
Teac CD-P4500	280	BS	E	Y	44,12,29	Digital attenuator
Teac VRDS-7	600	BS	E,O	Y	45,15,34	Twin BS
Teac VRDS-10	770	BS	E,O	Y	45,15,34,	Twin DAC7, balanced output
Teac VRDS-20	1300	BS	E,O	-	50,15,34	Twin DAC7, balanced output
Teac X-1	2500	MB		Y	46,14,40	Balanced out, 4x20bit
Teac X-1S	3500	MB	O	Y	46,14,40	Balanced out, 4x 20bit
Technics SL-PG360A	140	M	N	Y	43,10,29	Remote control capable
Technics SL-PG440A	170	M	N	Y	43,10,29	4-DAC
Technics SL-PG560A	180	M	O	Y	43,11,30	Selected audio parts
Technics SL-PS620A	200	M	O	Y	43,12,29	
Technics SL-PS740A	250	M	O	Y	43,13,29	Centre tray
Technics SL-PS840	420	M	O	Y	43,13,34	Advanced MASH converter
Technics SL-P2000	1000	M	O	Y	45,13,33	THCB base, R-Core transformer
Wadia 6 Player	3995	MB	E,O	Y	35,14,41	Digital volume, AT&T, balanced
Yamaha CDX-670	290	BS	E,O	Y	-	
Yamaha CDC-635	300	BS	-	Y	-	
Yamaha CDX870	330	BS	O	Y	-	
Yamaha CDX-1000	599	BS	E,O	Y	-	
YBA 2	2999	MB	E,O	Y	43,10,33	Outboard power supply

Model	Price	Dac Type	Outputs Dig	Remote	Size	Special
CD TRANSPORTS						
Arcam Delta 250	750	-	2E, O		43,9,28	BNC out. Has sync lock input
Audiolab 8000CDM	1250	-	E,O	Y	45,8,36	Precision master clock
Audiomeca Kreatura	999	-	E,O	Y	25,14,39	Heavily modified CDM
Audiomeca Mephisto	1999	-		Y	43,15,33	Integral platter, layer suspen
Counterpoint DA-11E	1495	-	E,O	Y	-	
DPA T1 Transport	895	-	-	Y	-	'Deltran' clock locking (with
Jadis JCDT	8000	-	-	Y	-	Top load
Krell MD-20 trans	4999	-	E,2O	Y	42,13,28	Top load, AT&T optical out
Krell MD-10 trans	7990	-	2E,O	Y	42,13,28	
Krell DT-10 trans	9090	-	2E,O	Y	42,13,28	Front loader
Meridian 200	895	-	E,O	Y	32,32,10	
Meridian 500	975	-	E,O	Y	32,33,9	
Meridian 602	1750	-	E,O	Y	32,33,10	
Micromega Drive 1	600	-	E,O	Y	43,28,88	Upgradable, AES/EBU out
Micromega Drive 2	900	-	E,O	Y	43,28,88	Upgradable, AES/EBU out

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Marantz CD-52 II SE	300	BS	E	Y	42,12,28	Selected passive components



Key to compact disc players, transports and DACs
Price - typical retail, to nearest pound.
DAC Type - MB - multibit, 1 bit - single bit, BS - Bitstream, DS - Delta Sigma, M - MASH, Hybrid - combines multibit and single bit.
Outputs Digital: Opt - optical (usually Toslink), El - electrical (usually coaxial S/PDIF).

Remote Control - Y - yes, N - No.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Dac Type	Outputs Dig	Remote	Size	Special
CD TRANSPORTS						
Micromega T-Drive	1200	-	E	Y	22,28,88	Tray loading, AES/EBU out
Micromega Duo CD3-1	1350	-	E,O	Y	34,9,31	Top loading, AES/EBU out
Micromega Duo CD2-1	2500	-	E,O	Y	34,9,31	Top loading, AES/EBU out
Orelle CD10-T	799	-	E	Y	44,10,32	Isolated PSU, silver wiring
PS Audio Lambda tr	1990	-	E	Y	38,8,34	AT&T, AES/EBU optional
Roksan ATT-DP2	1295	-	E	Y	46,12,35	Four level isolation
Roksan ATT-DP2A	1490	-	-	Y	46,12,35	AT&T optical
Teac P-700	900	-	E,O	Y	23,14,40	Half width, anti-resonance cha
Teac P-2	3500	-	E,O	Y	23,14,49	
Teac P-2S	4300	-	O,E	Y	23,14,49	Gold plate circuit boards
Theta Data Basic	1990	-	E	Y	42,8,34	AT&T, AES/EBU option
Theta Data II NTSC	3290	-	E	Y	42,12,40	AT&T, AES/EBU option
Wadia 8	3195	-	-	Y	35,16,41	
Wadia 7	9995	-	-	Y	35,16,46	

Model	Price	Dac Type	Outputs Dig	Remote	Size	Special
D/A CONVERTERS						
Arcam Black Box 50	450	Hybrid	E,O		43,7,28	Two inputs, sync lock
Audio A DAC-in-the-box	200	MB	E	-	-	
Audio Alchemy DDEv1.0	420	BS	E,O	-	-	Upradable external PSU
Audio Note DAC1	600	MB	E,O	Y	-	
Audio Note DAC3	1650	MB	E/O	Y	-	
Audio Research DAC2	3940	MB	-	-	48,14,26	20bit, 8x o/s
Audiolab 8000DAC	750	BS	-	-	45,8,36	Balanced AES/EBU input
AVI S2000MD	549	MB	-	-	-	
Beard DAP-2 DAC	999	BS	E,O	Y	-	Hybrid tube
Beard DAP-1	1250	MB	-	-	-	
Counterpoint AD20	255	MB		-	-	DACCard for DA-10E
Counterpoint CS18	355	MB	-	-	-	DACCard for DA-10E
Counterpoint BB69	595	MB	-	-	-	DACCard for DA-10E
Counterpoint UA20	995	MB	-	-	-	DACCard for DA-10E
Counterpoint DA-11E	1495	-	E,O	Y	49,6,27	Optional AT&T & AES/UBU balanc
Counterpoint DA-10E	1675	-	E,O	Y	-	Interchangeable DACs, optional
DPA Little Bit II.	450	BS	E,O	-	-	
DPA Bigger Bit	695	BS	E,O	-	-	
DPA PDM256	2995	-	-	-	-	Unique DPA DX64 DAC
DPA PDM10924	5995	-	-	-	-	Unique DPA DX128 DAC
EMF Audio Crystal	500	BS	-	-	-	
Krell Studio 2	3198	MB	-	-	42,13,27	AT&T in
Krell Studio	4450	MB	-	-	42,6,32	AT&T in
Krell Reference 64	14300	MB	-	-	42,13,39	AT&T in
Linn Numerik	1075	MB	-	-	32,8,33	
Meridian 563	695	DS	3E,0	N	33,9,34	
Metaxas Mas DAC	2800	MB	E,O	Y	26,15,45	External PSU, 20 bit
Micromega Microdac	349	BS	E,O	-	22,5,15	Coax/optical
Micromega DAC	600	BS	-	-	43,28,88	AES/EBU input
Micromega Duo BS2	600	BS	-	-	8,28,9	AES input
Micromega T-DAC	800	BS	-	-	22,28,88	Four inputs
Micromega Duo Pro 2	1350	BS	-	-	34,48,31	AES input
Mission DAC5	300	BS	-	-	7,11,29	Outboard DAC, matches DAD5
Musical Fidelity Tubalog	499	MB	E,O	N	44,8,32	Tube o/p
NVA Dacon	1010	BS	E	N	-	
Orelle DA-180	599	MB	E	N	44,7,28	2 outputs, twin transformers
Perception DAC	695	MB	-	-	-	
Pink Triangle Ordinal	790	BS	E,O		23,8,35	Interchangable DAC & filter
Pink Triangle DaCapo	1450	BS	E,O	-	46,8,35	Interchangable DAC & filter an
Pink Triangle DC	1500	-	-	-	46,8,35	Massive battery PSU for DaCapo
PS Audio DigiLink II	688	MB	-	-	38,8,16	
PS Audio SuperLink 2	1230	MB	-	-	38,8,16	
PS Audio UltraLink	2390	MB	-	-	38,6,20	AT&T input option
PS Audio Reference L	5490	MB	-	-	38,8,36	AT&T input
Roksan ATT-DA2	549	DS	-	N	22,8,33	DAC 4 inputs, optional AT&T
Sentec Diana	993	MB	E,O	-	-	
Teac D-700	600	MB	E,O	-	23,14,40	Matches P-700, 4x20bit
Teac D-2	2500	MB	-	-	23,14,49	18 bit, balanced output
Theta Pro-Prime	1449	BS	-	-	42,5,23	
Theta Probasic II	2299	MB	-	-	42,5,29	
Theta Pro Gen III	4600	MB	-	-	42,8,34	AT&T input option
Wadia 12	1530	MB	E,O	N	-	Balanced and AT&T outputs
Wadia 15	3790	MB	E,O	Y	35,9,41	Software upgradable
Wadia 64.4	4750	MB	E,O	N	35,8,28	Balanced output
Wadia 9	12790	MB	E,O	Y	44,9,36	Digital volume, separate PSU
Woodside DAC2	509	MB	E,O	-	-	
Woodside DAC1	909	MB	E,O	-	-	

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Marantz CD-52 II SE	300	BS	E	Y	42,12,28	Selected passive components



Key to digital recorders
Price - typical retail, to nearest pound.
Type - MD - MiniDisc - DCC - Digital Compact Cassette, DAT - Digital Audio Cassettes.
Digital In & Out - E - Electrical (usually coaxial S/PDIF), O - optical, (usually Toslink).

DAC Type - MB - multibit, 1 bit - single bit, BS - Bitstream, DS - Delta Sigma.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Dig. In	Dig. Out	DAC Type	Size	Special
DIGITAL RECORDERS							
JVC XM-D1BK	900	MD	E,O	E,O	BS	18,5,13	
Marantz DD-82	399	DCC	E,O	E,O	MB/BS	42,15,34	DAC7 output
Marantz DD-92	800	DCC	E,O	E,O	MB/BS	46,15,34	DAC7, zinc side panels
Meridian CDR	4500	CD-R	E,O	E	BS in/	-	
Nakamichi 10007	0	DAT	E,O	E,O	MB in/	-	
Philips DCC300	250	DCC	E	Y	BS in/	36,11,30	
Philips DCC600	300	DCC	E	Y	BS in/	44,12,30	
Philips DCC900	350	DCC	E,O	Y	BS in/	44,14,30	
Sharp MD-D10E	400	MD	-	Y	-	3,9,11	World's smallest MD player
Sony DTC690	600	DAT	E,O	Y	1bit i	43,11,35	UK sound, SCMS
Sony MDS101	700	MD	O	Y	1bit i	23,8,29	Title display, full remote
Sony MBS501	800	MD	E,O	E,O	-	-	Sample rate cpnverter
Sony DTC60ES	800	DAT	E,O	E,O	-	-	SBM
Technics RS-DC8	700	DCC	E,O	E,O	BS	43,12,35	

Model	Price	Type	Weight	Impedance	Special
HEADPHONES					
Aiwa HP-V141	7	Ear	5	16	Bass resonator ducts
Aiwa HP-A160	7	Opn	45	32	Banded, 3.5/6.3mm
Aiwa HP-JB33	8	Opn	18	16	Vertical ear fit, ultra light
Aiwa HP-V143	9	Ear	5	16	Bass resonator ducts
Aiwa HP-A260	9	Opn	54	32	Banded, bass resonator ducts
Aiwa HP-V145	10	Ear	5	16	Carrying case included
Aiwa HP-V147	10	Ear	5	16	Bass resonator ducts
Aiwa HP-X201	13	Sld	230	-	Dual plug
Aiwa HP-A360	13	Opn	65	40	Banded, bass resonator ducts
Aiwa HP-X301	20	Sld	230	-	3m lead, dual plug
Aiwa HP-VX303	25	Sld	230	-	In-line controls, dual plugs
Aiwa HP-X705	40	Sld	130	-	Dual plug, 2m ext cable
AKG K2	23	Opn	70	200	Mini
AKG K33	25	Opn	90	50	
AKG K44	42	Opn	90	50	
AKG K135	46	Opn	160	150	
AKG K141	74	Opn	225	600	
AKG K240 Monitor	82	Opn	240	600	
AKG K270	112	Sld	250	75	
AKG K280 Parabolic	117	Opn	250	75	
AKG K400	118	Opn	250	120	
AKG K270 Studio	121	Sld	250	75	
AKG K500	138	Opn	250	120	
AKG K340	191	Opn	380	400	
AKG K1000	646	Opn	270	120	
Audio Technica ATH-309	36	Opn	140	30	
Audio Technica ATH-M4X	39	Opn	140	30	
Audio Technica ATH-909	60	Opn	200	600	
Audio Technica ATH-01	80	Opn	200	600	
Audio Technica ATH-910	90	Sld	200	600	
Audio Technica ATH-9000	245	Opn	240	32	
Beyer DT311	45	Opn	120	40	
Beyer DT331	49	Opn	120	250	
Beyer DT411	59	Opn	120	250	
Beyer DT431	69	Opn	250	250	
Beyer DT-511	85	Opn	200	40	
Beyer DT990	119	Opn	200	600	
Beyer DT801	129	Sld	250	250	
Beyer DT100	135	Sld	350	600	
Beyer DT770 Pro	140	Sld	250	600	
Beyer DT811	159	Opn	245	250	
Beyer IRS790	165	Opn	120	-	Cordless infra-red
Beyer DT990 Pro	169	Opn	250	600	
Beyer DT-901	179	Sld	280	250	
Beyer IRS890	199	Opn	120	600	
Beyer DT911	199	Opn	275	250	
Jecklin Float Model 1	75	Opn	400	200	
Jecklin Float Model 2	99	Opn	400	200	
Jecklin Float ELS	399	Opn	600	8	Electrostatic
JVC HA-M3	6	Sld	33	32	1.2m dual plug lead
JVC HA-F15	9	Opn	6	16	Mini 1.2m, 3.5/6.3mm plug
JVC HA-X55	12	Sld	45	32	2m dual plug lead
JVC HA-D410	15	Sld	90	32	2m, 3.5/6.3mm plug
JVC HA-X77	16	Sld	40	32	2m dual plug lead
JVC HA-F35	16	Opn	6	32	Mini 1.2m, 3.5/6.3mm plug
JVC HA-X99	17	Sld	50	32	2m dual plug lead
JVC HA-D510	20	Sld	110	32	3m, 6.3/3.5mjacks
JVC HA-D610	25	Sld	120	32	3m, 6.3/3.5mjacks
JVC HA-D690	40	Sld	220	32	3m, 6.3/3.5mjacks
JVC HA-D710	55	Sld	210	32	3m, 6.3/3.5mjacks
JVC HA-D910	65	Sld	220	32	3m, 6.3/3.5mjacks
JVC HA-D1000	250	Sld	340	32	5m, 6.3/3.5mjacks
Kenwood KH-535	15	Ear	-	32	3.5mm plug
Kenwood KH-757	20	Ear	-	32	3.5mm plug
Kenwood KH-1000	20	Opn	30	32	2m OFC lead

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Philips DCC600 300 DCC E Y BS in/out 44,12,30



Key to headphones
Price - typical retail, to nearest pound.
Type - Opn - open back, vented or velocity type; gives less environmental isolation, but is usually more natural feeling in extended use. Sld - sealed - the headphones form an air seal around the ears, helping reduce sound leakage. IR - Infra red cordless. Ear - in-ear model.

Weight - without cable.
Impedance - in ohms.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Weight	Impedance	Special
HEADPHONES					
Kenwood KH-959	25	Ear	-	32	3.5mm plug
Kenwood KH-2020	40	Sld	210	32	2.5m OFC lead
Kenwood KH-5000	70	Sld	280	32	2.5m OFC lead
Koss TD60	29	Sld	150	27	
Koss TD65	45	Sld	150	100	
Koss MAC5	45	Opn	100	60	
Koss TD75	59	Sld	330	150	
Koss Porta Pro Jnr	59	Opn	65	60	
Koss Porta Pro 1	65	Opn	65	60	
Koss MAC7	65	Sld	160	60	
Koss Pro 480	115	Cld	250	100	
Koss Pro 4AA	129	Sld	425	230	
Koss JCK200	195	Sld	240	100	Cordless infra-red
Koss JCK300	350	Sld	240	100	Cordless infra red
Koss ESP950	1995	Opn	350	-	Electrostatic
Maxell HP100	4	Ear	3	32	Replacable pads, 1m lead
Maxell HP200	5	Opn	30	32	Replacable pads, 1m lead
Maxell HP-400	8	Ear	4	32	With pouch, 6/3/3.5mm fit
Maxell HP300	8	Opn	40	32	6.3/3.5mm fit
Maxell HP-350	9	Eiar	5	32	Winder case, fold plug,
Maxell HP-500	13	Opn	45	22	2.7m lead, 6.3/3.5mm fit
Maxell HP1000	15	Opn	95	32	2.7m lead, digital ready
Maxell HP-4000	20	Ear	5	16	Volume control, winder case
Maxell HP2000	20	Opn	140	32	Volume control digital ready
Maxell HP-3000	30	Sed	120	32	Volume control digital ready
Nakamichi SP7	70	Opn	150	45	
Pioneer SE-5	16	Opn	-	30	2m cable
Pioneer SE-15	20	Opn	-	30	2m cable
Pioneer SE-32	23	-	-	40	Litz cable
Pioneer SE-52	25	-	-	32	Litz cable
Pioneer SE-15V	30	Opn	-	30	5m cable
Pioneer SE-330D	35	Sld	-	35	3m cable, bass boost duct
Pioneer SE-400D	37	Sld	-	35	3m cable
Pioneer SE-500D	48	Sld	-	35	3m cable
Pioneer SE-700D	60	Sld	-	35	3m cable
Ross RE-233	5	Opn	25	8	Micro
Ross RIH-150	6	Ear	5	16	Inner ear headphone
Ross RE-235	6	Opn	5	16	Personal stereo
Ross RE-234	6	Opn	5	16	Personal stereo
Ross RE-229	6	Opn	35	8	Folding
Ross RE-2030	6	Opn	5	8	Personal stereo
Ross RMH-300	7	Opn	51	8	Lightweight
Ross RE-280	7	Ear	10	16	Vertical inner ear
Ross RE-246	7	Opn	5	16	Micro stereo phones
Ross RE-223	7	Sld	155	8	Stereo/mono
Ross RMH-500CD	9	Opn	48	16	Lightweight
Ross RIH-360CD	9	Ear	16	16	Vertical inner ear
Ross RE-2060CD	9	Opn	5	16	Inner ear headphone
Ross RMH-310TV	10	Opn	51	8	For video and TV
Ross RIH-550	10	Ear	5	16	Inner ear, with volume control
Ross RIH-460CD	12	Ear	16	16	Vertical inner ear, volume pot
Ross RDH-200CD	13	Sld	150	8	Closed back
Ross RDH-100CD	15	Sld	144	8	CD headphone
Ross RDH-300CD	17	Sld	155	8	CD headphone
Ross RDH-400CD	22	Sld	186	8	Digital headphone
Sennheiser HD16	8	Opn	45	32	Mini, 1.2m lead, dual plug
Sennheiser HD36	11	Opn	62	32	Mini, 1.2m lead, dual plug
Sennheiser HD56	13	Opn	72	32	Mini, 1.2m lead, dual plug
Sennheiser Vegas	25	Opn	118	32	3m lead, 3.5/6.3mm
Sennheiser Manhattan	25	Opn	118	32	3m lead, 3.5/6.3mm
Sennheiser HD60TV	35	Opn	118	32	6.8m lead (inc vol control)
Sennheiser HD440 II	35	Opn	125	60	3m lead, 3.5/6.3mm
Sennheiser HD320	40	Opn	120	60	3m lead, 3.5/6.3mm
Sennheiser HD330	55	Opn	120	100	3m lead, 3.5/6.3mm
Sennheiser HD340	65	Opn	120	100	3m lead, 3.5/6.3mm
Sennheiser HD25 SP	80	Sld	115	85	3m lead, 6.3mm plug
Sennheiser HD520 II	90	Opn	210	300	3m lead, 3.5/6.3mm
Sennheiser HD530 II	100	Opn	210	300	3m lead, 3.5/6.3mm
Sennheiser HD540 II	120	Opn	195	300	3m lead, 3.5/6.3mm
Sennheiser Set 90/UK	130	Ear	40	-	Infra-red cordless
Sennheiser HD560 Ovn II	140	Opn	210	300	3m lead, 3.5/6.3mm
Sennheiser HD25	140	Sld	140	70	1.5m lead, 3.5/6.3mm
Sennheiser S450	150	Opn	160	-	Infra-red cordless - hi-fi
Sennheiser Set 180/UK	150	Ear	43	-	Infra-red cordless
Sennheiser IS550	180	Opn	170	-	Infra-red cordless
Sennheiser HD 580	190	Opn	260	300	3m lead, 3.5/6.3mm
Sennheiser Charleston	224	Opn	210	140	3m lead, dual plug, leather tr
Sennheiser HE60/HEV70	998	Opn	260	-	Electrostatic with energiser
Sennheiser Orpheus	9652	Opn	365	-	Electrostatic, valve energiser
Sony MDR-E515EX	8	Ear	5	-	1m lead, mini plug
Sony MDR-007 Mk II	8	Opn	36	-	2m, 3.5/6.3mm plug
Sony MDR-009	10	Opn	40	-	2m, 3.5/6.3mm plug
Sony MDR-W07L	11	Ear	13	-	1m mini plug
Sony MDR-E505	12	Ear	-	-	
Sony MDR-A009	12	Opn	-	-	-

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

JVC HA-D690 40 Sld 220 32 3m, 6.3/3.5mjacks

PRICE WAR SALE

HYPER HI-FI

FREE HEADPHONES WITH ALL SCOOP PURCHASES

OPENING TIMES
MON-SAT 9am-6pm
FRI 7pm
CLOSED THURSDAYS

HUNDREDS OF LOWER PRICES PHONE FOR DETAILS

BRITAIN'S LARGEST INDEPENDENT HI-FI/VIDEO BULK BUYER

- Our Massive Buying Power gives you the Best Possible Deal. Brand New Factory Sealed units – All Fully Guaranteed.

(NO REPAIRED UNITS, MAIL ORDER RETURNS OR GREY IMPORTS)

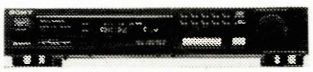
- All prices include V.A.T.
- We have Friendly Expert Advisers on hand at our 10,000sq. ft. Superstore at Barking. They can offer Advice and Full Demonstrations.
- We offer the Fastest Mail Order Department in the Business. Fully insured, specially packed 24 Hour securicor delivery
- 14 day exchange on all goods
- We Care. We have Fully Trained Service Personnel.
- We want your custom . . .

If you have been satisfied with the Service at Hyper-Fi tell others. If you're not happy for any reason don't hesitate to tell us.

JUST WRITE TO: HYPER-FI P.R. DEPT. (RICHSIDE), FREEPOST, RM90, CHIGWELL, IG7 6BR.

THIS MONTH'S STAR BUYS

SONY



STS311

- RDS TUNER WITH EON
- 3 BAND AM/FM DIGITAL SYSTEM
- DISPLAY MODEL. 30 PRESETS
- DIAL TUNING SYSTEM
- WHAT HI-FI AWARD WINNER

SAVE £52 **£147.95**

TECHNICS

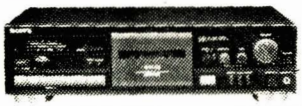


SLPG440

- HIGHLY REVIEWED PLAYER
- MASH 4 DAC SYSTEM
- CD/SYNCRO EDIT
- HEADPHONE SOCKET & VOL CONTROL
- FULL REMOTE CONTROL

SAVE £££ **£149.95**

SONY



TCK611S

- 3 HEAD DOLBY S CASSETTE
- POWER OPEN/CLOSE
- DISPLAY MODEL. 3 MOTOR SYSTEM
- CERAMIC CASSETTE HOLDER
- WHAT HI-FI AWARD WINNER

SAVE £90 **£239.95**

BARGAIN OFFERS

NAKAMICHI MISSION HALF PRICE SUPER SYSTEM

NAKAMICHI IA3 AMPLIFIER
"Smooth sophisticated sounding amp" What Hi-Fi? ★★★★

NAKAMICHI CD4 CD PLAYER
"Clean shimmering sound" What Hi-Fi? Sound Quality ★★★★

MISSION 760i SPEAKERS
"Open exciting presentation" What Hi-Fi? Sound Quality ★★★★★

~~£860~~ HALF PRICE **£429.95**

ALSO DR3 CASSETTE UNBEATABLE

MORDAUNT SHORT Special Purchase Deal

All brand new factory sealed. Most at trade price or less

SONY Special Purchase

All equipment brand new sealed cartons fully guaranteed direct from SONY (U.K.) LTD.

WE WILL BEAT ANY GENUINE ADVERTISED PRICE BY UP TO £25

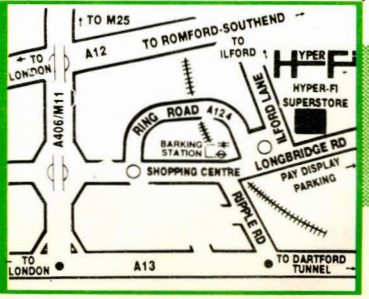
PHONE FOR DETAILS

HYPER HI-FI

67-73 LONGBRIDGE ROAD BARKING, ESSEX.

HOTLINE: 081-591 6961

NOW ONLY MINUTES AWAY FROM THE NEW M11 (A406) MOTORWAY
CLOSE TO BARKING UNDERGROUND/MAINLINE STATION



PHILIPS
FB290 QUALITY SPIKED SPEAKER STANDS
£19.95 PAIR

HYPER HI FI

MONITOR AUDIO
SPEAKER STANDS
HALF PRICE
PHONE FOR DETAILS

HOTLINE TELEPHONE 081 591 6961

AMPLIFIERS

PIONEER



- HIGHLY REVIEWED RANGE — A201
- 2 x 25 WATTS OUTPUT
- 5 INPUTS 2 TAPE DUBBING
- BASS TREBLE TONE CONTROLS
- LOUDNESS SWITCH
- HEADPHONE SOCKET BLACK 420mm

Also A102 2 x 30 WATT £99.95

SAVE £60 **£69.95** SCOOP

SONY

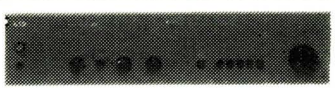


- 2 x 30 WATTS OUTPUT — TAF211
- 5 INPUTS SPEAKER A/B
- DISPLAY MODEL SOURCE DIRECT
- TWIN DRIVE POWER SUPPLY

Also TAF319R 40 WATT REMOTE £129.95

SAVE £50 **£99.95** SAVE £50

NAD



- EUROPEAN AMP OF THE YEAR
- BEST BUY HI-FI CHOICE — NAD 302
- 2 x 25 WATTS RMS
- HEAVY DUTY BINDING POSTS
- PRE/POWER OUT TERMINALS

Also 304 & 705 UNPRINTABLE

SAVE £££ **£Censored**

YAMAHA A/V



- FULL AUDIO/VISUAL FUNCTION — AXV401
- 90 WATTS PER CHANNEL
- INFRA-RED REMOTE
- 6 INPUTS INC TWO TAPE
- SOURCE DIRECT. LOUDNESS
- TWIN SPEAKER OUTPUTS

SAVE £60 **£139.95**

NAKAMICHI

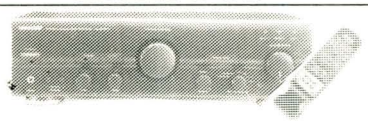


- HIGHLY REVIEWED WHAT HI-FI & HI-FI CHOICE
- "SWEET CRISP DETAILED AMPLIFIER"
- AUTHORISED U.K. DEALER STOCK
- 2 x 40 WATTS 8 OHMS
- 2 x 57 WATTS DYNAMIC POWER — 1A3

HALF PRICE **£169.95**

AMPLIFIERS

KENWOOD



- HIGHLY REVIEWED WHAT HI-FI
- 44 KEY REMOTE CONTROL.
- 2 x 60 WATTS 20HZ -20KHZ — KA4040R
- 2 x 140 WATTS DYNAMIC POWER
- PURE SIGNAL GROUND LINE

SAVE £80 **£169.95**

SONY

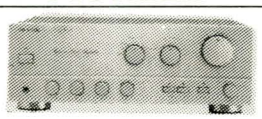


- EXCLUSIVE U.K. AUDIOPHILE DESIGN — TAF540E
- HIGHLY REVIEWED
- 2 x 90 WATTS RMS 8 OHMS
- PURE STRAIGHT PATH DESIGN
- MM + MC CART INPUTS

Also TAF 442ED £159.95 TAF 542ED £169.95

SAVE £80 **£169.95**

PIONEER

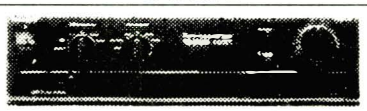


- 2x95 WATTS 20HZ - 20KHZ
- 2 x 200 WATTS DYNAMIC POWER — A676G
- SUPER LINEAR CIRCUIT
- DIRECT SWITCH 7 INPUTS
- RECORD SELECTOR HIGH GAIN PHONE EQ.

Also A676BL £249.95

SAVE £120 **£179.95**

SONY



- 100 WATTS RMS 8 OHMS • GIBRALTER CHASSIS
- 7 INPUTS, TWIN DRIVE POWER SUPPLY
- SOURCE DIRECT/RECORD OUT SELECT
- MM/MC PREOUT AB SPEAKERS
- HIGHLY REVIEWED AMP — TAF670ES

SAVE £100 **£299.95** SCOOP

KENWOOD



- 5 STAR REVIEW WHAT HI FI
- GOOD REVIEW HI FI CHOICE — KAV 8500
- ULTIMATE HOME THEATRE
- 2 x 85 WATTS FRONT 2 x 45 WATTS REAR
- 1 x 45 WATTS CENTRE • DOLBY PRO LOGIC DSP
- SIX AUDIO SIX VISUAL CONNECTIONS
- FULL REMOTE CONTROL

SAVE £210 **£489.95**

RECEIVERS

SONY



- A.V. REMOTE RECIEVERI
- DOLBY SURROUND SOUND
- 2 x 60 WATTS FRONT 2 x 10 WATTS REAR
- 6 AUDIO 2 VIDEO INPUTS
- VIDEO OUT COPY FACILIYTY
- DYNAMIC BASS FEEDBACK SYSTEM
- 30 RANDOM PRESET 3 WAVEBAND — STRD590

SAVE £60 **£189.95**

TUNERS

PHILIPS



- QUALITY DIGITAL TUNER
- AM/FM 30 PRESETST
- REMOTE CONTROL OPTION
- REMOTES WITH FA920 AMP
- 435MM WIDE — FT910

Also FT920 £99.95

HALF PRICE **£79.95** SCOOP

KENWOOD



- FM/LW/MW/ 30 PRESETS
- 12 STATION NAME PRESETS — KT2030L
- 6 EVENT PROGRAMME TIMER
- 60 MINUTE SLEEP TIMER
- SUPERB QUALITY

SAVE £60 **£89.95** SAVE £60

TECHNICS



- QUALITY TECHNICS TUNER — ST610L
- 13 WAVE BAND M.W./L.W./FM.
- QUARTZ LOCKED SYNTHESIZER
- 20 PRESETS
- DELUXE BLACK FINISH

SAVE £££ **£109.95**

PIONEER



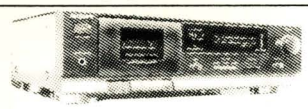
- DIGITAL DIRECT DECODER — F401L
- 3 BAND FM/MW/LW
- 36 RANDOM PRESETS
- SYSTEM REMOTE
- 3 SPEED SEARCH

Also F301RDS £149.95

SAVE £50 **£119.95**

CASSETTE DECKS

SONY



- QUALITY CASSETTE DECK
- DOLBY B+C
- FINE BIAS ADJUST
- AUTO TAPE SELECT
- MULTIPLEX FILTER

TCFX170

Also TCFX211 £59.95

SAVE £££ **£69.95** SAVE £££

SONY



- HIGHLY REVIEWED RANGE
- 3 HEAD CASSETTE DECK
- TWIN MOTOR SYSTEM
- DOLBY B/C HX PRO
- MULTO AMS. FULL LOGIC

TCK411

SAVE £60 **£139.95**

SONY

DOLBY S PRICE BREAK THROUGH



- 3 HEAD DOLBY S.
- 3 HEAD 2 MOTOR
- DOLBY B 7 C 7 S 7 HX PRO
- MID SHIP DRIVE MULTI AMS

TCK5115

SAVE £110 **£169.95**

PIONEER



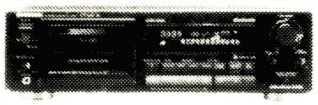
- 3 HEAD CASSETTE
- INFRA RED REMOTE.
- DOLBY B. C. HX PRO
- ELECTRONIC COUNTER
- H/P OUTPUT MUSIC SEARCH

CTS 510

Also CTS210 £69.95 CTS620 £199.95 CTW820R £249.95

SAVE £££ **£169.95**

PIONEER



- HIGHLY REVIEWED CASSETTE
- DUAL CAPSTAN 3 HEAD DECK
- DOLBY BC HX PRO
- CD DECK SYNCRO
- MUSIC SKIP DISPLAY OFF

CTS610

SAVE £100 **£199.95** SCOOP

NAKAMICHI



- FIVE STAR WHAT HI-FI REVIEW
- HIGHLY REVIEWED HI-FI CHOICE
- SUPERB QUALITY 2 HEAD MACHINE
- OUTSTANDING RECORD QUALITY
- AUTHORISED UK DEALER STOCK

DR3

Also DR2 UNPRINTABLE

SAVE £££ **£Censored**

CASSETTE DECKS

AKAI



- RECOMMENDED HI-FI CHOICE
- 3 HEAD SUPER GX (10 YEAR GUARANTEE)
- CLOSED LOOP DUAL CAPSTAN DRIVE
- DOLBY B, C & HX PRO (SWITCHABLE)
- AZIMUTH & HEIGHT ADJUSTMENT

GX95 II

SAVE £110 **£329.95**

SONY



- FULL SIZE DAT RECORDER.
- 1 BIT A/D AND PULSE D/A CONV
- 3 MOTOR SYSTEM
- LONG PLAY MODE A/B REPEAT
- LINEAR TAPE COUNTER
- REMOTE CONTROL

DTC690

SAVE £200 **£399.95**

COMPACT DISC

AKAI

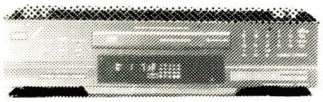


- QUALITY COMPACT DISC
- 3 BEAM LASER PICK UP
- 20 SELECTION PROGRAM
- REMOTE OPTIONAL
- DIGITAL OPTICAL OUTPUT
- SLIMLINE BLACK 240 VOLT

CDM659

HALF PRICE **£59.95** SCOOP

SONY



- QUALITY COMPACT DISC
- 1 BIT D/A CONVERTOR
- 45 BIT NOISE SHAPING DIGITAL FILTER
- 20 TRACK MUSIC CALENDER
- PEAK SEARCH

CDPM43

HALF PRICE **£99.95** HALF PRICE

PHILIPS



- FAMOUS PHILIPS QUALITY
- HIGHLY REVIEWED WHAT HI-FI.
- BITSTREAM D.A.C. DIGITAL OUTPUT
- FULL FUNCTION REMOTE
- DIRECT ACCESS EDIT MODES

CD920

ALSO CD162 MIDI CD £69.95

SAVE £££ **£129.95**

SONY



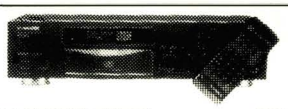
- GREAT FEATURE REVIEW WHAT HI-FI
- 45 BIT 8 DAC D/A CONVERSION.
- DIGITAL SERVO SYSTEM
- FULL REMOTE/REM VOL
- TIME/MANUAL FADE

CDP597

SAVE £50 **£129.95**

COMPACT DISC

PIONEER



- HIGHLY REVIEWED RANGE
- STABLE PLATTER MECHANISM
- 1 BIT DIRECT LINEAR CONVERSION.
- ANTI RESONANCE DESIGN
- OPTICL DIGITAL OUTPUT
- H/P MOTOR DRIVE OUTPUT

PDS 601

Also PDS701 £179.95

SAVE £90 **£149.95**

YAMAHA



- 5 STAR REVIEW WHAT HI FI
- HIGHLY REVIEWED HI FI CHOICE
- 5 BIT PLUS TECHNOLOGY
- VARABLE ANALOG OUTPUT
- FULL REMOTE CONTROL

CDX470

CDX570 £189.95 CDX870 £199.95

SAVE £40 **£159.95**

MARANTZ



- HIGHLY REVIEWED WHAT HI-FI
- HIGHLY REVIEWED HI-FI CHOICE
- COAXIAL DIGITAL OUTPUT.
- FULL REMOTE CONTROL
- SUPERB BUILD QUALITY

CD52II

Also CD52II SE UNPRINTABLE

SAVE £££ **£Censored**

PHILIPS

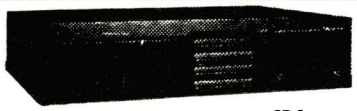


- BITSTREAM QUALITY MULTIPLAYER.
- DIGITAL ANALOGUE OUTPUT
- FTS FAVORITE TRACK SELECTION
- FULL REMOTE CONTROL
- CARROUSEL ALLOWS 3 DISC CHANGE WHILE PLAYING FIFTH
- FULL WIDTH 435MM

CDC935

SAVE £60 **£169.95** SCOOP

NAKAMICHI



- HIGHLY REVIEWED WHAT HI-FI
- FOUR STAR SOUND QUALITY
- DIGITAL COAXIAL OUTPUT
- SUPERB BUILD QUALITY
- FULL REMOTE CONTROL

CD4

SAVE £140 **£239.95**

MARANTZ



- HIGHLY REVIEWED WHAT HI-FI 7 HI-FI CHOICE
- DIFFERENTIAL MODE BITSTREAM CONVERTOR
- OPTICAL AND CO-AXIAL DIGITAL OUTPUT.
- FTS MOTORIZED VOLUME CONTROL
- REMOTE CONTROL

CD72

SAVE £180 **£269.95**

HOTLINE TELEPHONE 081 591 6961

IMPORTANT NOTICE AUTHORISED DEALERS

Not all advertisers in this magazine are authorised dealers for the products they stock. If you check with major manufacturers they will advise you to buy from authorised dealers to ensure full company guarantee back up.

Hyper-Fi only sells brand new factory sealed stock direct from the manufacturers and is an authorised dealer for all its brands

HOTLINE TELEPHONE 081 591 6961

COMPACT DISC

PIONEER



PDS901

- "RECOMMENDED" HI-FI CHOICE
- 4 STAR SOUND QUALITY WHAT HI-FI
- SUPERB TOP OF THE RANGE BUILD QUALITY.
- STABLE PLATTER MECHANISM
- CENTRE TRAY FULL REMOTE

SAVE £200 **£299.95**

SONY



CDPX303ES

- TOP OF THE RANGE ES. QUALITY
- HIGHLY REVIEWED HI-FI CHOICE
- DIGITAL OPTICAL OUTPUT.
- FULL REMOTE CONTROL
- FIVE STAR REVIEW WHAT HI-FI

SAVE £220 **£329.95**

SPEAKERS

MORDAUNT SHORT A/V

MS5.10S

- FULLY SHEILDED MAGNETS SUITABLE FOR ALL A/V APLICATIONS
- HIGHLY REVIEWED HI-FI SPEAKER
- NEW IMPROVED TWEETER
- POSITEC PROTECTION SYSTEM
- SHELF OR FLOOR STAND USE
- 100 WATTS HANDLING
- DELUX BLACK FINISH
- IDEAL CENTRE SPEAKER



SAVE £££ **£49.95** SAVE £££

J.P.W.

MINIM

- IMPROVED MODEL UP FROM MINI MONITOR
- RECOMMENDED HI-FI CHOICE
- 70 WATTS POWER RATING
- FERRO FLUID DOME TWEETER
- HARD WIRED X/OVERS
- LARGE DIAMETER TERMINALS
- WALNUT FINISH



SAVE £30 **£49.95** SAVE £30

J.P.W.

SONATA

- HIGHLY REVIEWED WHAT HI-FI
- WHAT HI-FI AWARD WINNER
- HI-FI CHOICE BEST BUY
- 70 WATTS HANDLING
- FREQ RANGE 70HZ - 20KHZ
- WALNUT FINISH

320 x 230 x 210mm



SAVE £30 **£69.95** SAVE £30

SPEAKERS

MORDAUNT SHORT

MS.10

- HIGHLY REVIEWED HI-FI CHOICE
- FIVE STAR REVIEWED WHAT HI-FII
- 100 WATTS REPAC UNITS
- ALUMINIUM DOME TWEETER
- DELUXE BLACK FINISH



SAVE £30 **£99.95** SAVE £30

MORDAUNT SHORT

MS30

- HIGHLY REVIEWED NEW RANGE
- TWO WAY INFINITE BAFFLE
- 100 WATTS REPAC UNITS
- ALUMINIUM DOME TWEETER
- MCS WOOFER BI. WIRE
- 25 x 43 x 28cm BLACK FINISH



SAVE £80 **£169.95**

CELESTION

CELESTION 9

- HIGHLY REVIEWED HI-FI CHOICE
- HIGHLY REVIEWED WHAT HI-FI
- 100 WATTS HANDLING
- 3 WAY BASS REFLEX
- SUPERB BLACK FINISH

ALSO DELUXE OAK FINISH £199.95



SAVE £100 **£169.95**

CELESTION

CELESTION 15

- RECOMMENDED HI-FI CHOICE
- HIGHLY REVIEWED WHAT HI-FI
- FLOOR STANDING 2 WAY DESIGN
- TITANIUM DOME TWEETER
- 100 WATTS HANDLING
- SUPERB BLACK FINISH

ALSO DELUXE OAK FINISH £299.95



SAVE £140 **£249.95**

MORDAUNT SHORT A/V

MS5.50

- HIGHLY REVIEWED SPEAKER
- FLOOR STANDING BASS REFLEX
- 89 DB 1 WATT SENSITIVITY
- TWIN BASS UNITS DOME TWEETER
- ROSEWOOD FINISH

Also DELUXE BLACK FINISH £349.95



SAVE £70 **£329.95**

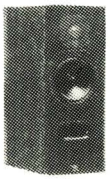
SPEAKERS

MONITOR AUDIO

MA800GOLD

- HIGHLY REVIEWED SPEAKER
- UNIQUE FRONT REFLEX
- 120 WATTS HANDLING
- GOLD ANODIZED ALLOY TWEETER DIE CAST BASS
- DELUXE ROSEWOOD

Also MA1800RO £699.95



SAVE £70 **£349.95**

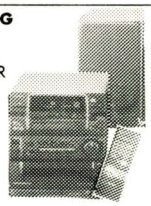
SYSTEMS

AIWA

NSX360G

- AWARD WINNING SYSTEM
- 2 x 30 WATTS OUTPUT
- 5 BAND SPECTRUM ANALYSER
- KAROKE MIC MIXING
- FULL REMOTE CONTROL
- 3 WAY SPEAKERS £30 PAIR

Also NSX 500 3 Disc Auto 7 Band Spectrum £279.95

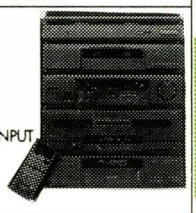


SAVE £££ **£239.95**

PIONEER

J20

- DOLBY SURROUND SOUND SYSTEM
- 2 x 50 WATTS FRONT 2 x 10 WATTS REAR
- SOUND FIELD CONTROL + MOVIE MODE
- 7 BAND EQUALIZER, VIDEO INPUT
- 36 PRESET AM/FM TUNER
- 1 BIT 24 TRACK CD PLAYER
- TWIN A/REV DOLBY B & C
- QUALITY TURNTABLE



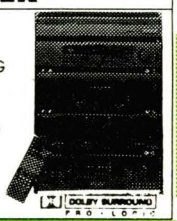
SAVE £150 **£399.95**

PIONEER

J40

- 2 x 100 WATTS RMS OUTPUT
- SEPARATE POWER AMPLIFIER
- A/B A+B SPEAKER SWITCHING
- 7 BAND EQUALIZER
- STABLE PLATTER C.D. PLAYER
- 36 PRESET AM/FM TUNER
- TWIN AUTO/REV B.C. HX PRO
- QUALITY BELT DRIVE T/TABLE

MR100 Multi Room Adaptor £29.95



SAVE £200 **£599.95**

PIONEER

N93T

- DOLBY PRO LOGIC
- 2 x 66 WATTS 3 x 15 WATTS (RMS)
- MULTI ROOM COMPATABLE
- VOCAL CANCEL & MIC MIXING
- TWIN AUTO/REV B.C. HX PRO
- 1 BIT SINGLE C.D. PLAYER

MR100 Multi Room Adaptor £29.95



SAVE £200 **£699.95**

WE WILL BEAT ANY GENUINE ADVERTISED PRICE!

BY UP TO £25
PHONE FOR DETAILS

AMPLIFIERS

AKAI
AMM659	£89.95
AM47	£129.95

AIWA
XA003	£99.95
XA950	£149.95

CAMBRIDGE
A75	£49.95
P75	£99.95

DENON
PMA250	£119.95
PMA350	£149.95
PMA480R	£219.95
PMA450	£249.95
PMA880R	£299.95

JVC
AXA662	£229.95

KENWOOD
KA1030	£119.95
KA3020ED	£139.95
KA3050R	£169.95
KA4040R	£169.95
KA5040R	£169.95
KA7020	£169.95
KA5050RED	£249.95
KA7050R	£449.95
KAV8500	£489.95
KAV7700	£489.95

MARANTZ
PM42	£99.95
PM40SE	£129.95
PM32	£139.95
PM52	£149.95
SP50 ED	£149.95
PM44SE	£179.95
PM52SE	£299.95
PM54SE	£299.95
PM700ED	£349.95

NAD
302	P.O.A.
304	P.O.A.
306	P.O.A.

NAKAMICHI
1A3	£169.95
1A2	P.O.A.
1A1	P.O.A.

PHILIPS
FA920	£119.95
FA930	£149.95
FA890	£149.95

PIONEER
A201	£69.95
A102	£99.95
A351R	£149.95
A202	£119.95
A300X	P.O.A.
A400	P.O.A.
A676G	£179.95
A400X	P.O.A.
A602	£249.95
A676BL	£249.95

ROTEL
RA920AX	£89.95
RA 930	£169.95
RA935	£199.95
RA 960 BX	P.O.A.
RA 980 BX	P.O.A.

SONY
TAF211	£99.95
TAF242ED	£119.95
TAF319R	£129.95
TAF442ED	£159.95
TAF440E	£159.95
TAF244E	P.O.A.
TAF540E	£169.95
TAF542ED	£169.95
TAF670ES	£299.95
TAAV57OB	P.O.A.
TAAV670	£329.95

TECHNICS
SUVZ220ED	£99.95
SUVZ320	£139.95
SUA600K	P.O.A.
SUVX600	£149.95
SUA700K	P.O.A.
SUA800K	£329.95
SUA900K	P.O.A.

YAMAHA
AX350	£99.95
AX470	P.O.A.
AXV401	£139.95
AX550	£139.95
AX570	P.O.A.

AUDIO VISUAL

CELESTION
FULL RANGE	P.O.A.

DENON
AVC1530ED	£399.95
AVC3020ED	£599.95
AVR1000	P.O.A.
AVC 3530	P.O.A.

JPW
FULL RANGE	P.O.A.

KENWOOD
KRV6050	£289.95
KRV6060ED	£299.95
KRV7050ED	£349.95
KAV8500	£489.95

MARANTZ
SP50ED	£149.95
PM700ED	£349.95
AV500	P.O.A.
MA500	P.O.A.
SR73	P.O.A.
SR82	P.O.A.
MV633	P.O.A.

MORDAUNT SHORT
FULL RANGE	P.O.A.

MONITOR AUDIO
FULL RANGE	P.O.A.

PIONEER
CLD2600	£229.95
VSA740	£349.95
VS701S	P.O.A.
VSAD802S	P.O.A.
VSX452	P.O.A.
CLD1850	P.O.A.
CLD2850	P.O.A.
CLDM5	P.O.A.

ROTEL
RB956AX	£324.95
RSP960AX	£399.95

SONY
STRD590	£189.95
STRD511ED	£189.95
STRD790	£199.95
STRD611	P.O.A.
TAAV570B	P.O.A.
TAAV670	£329.95

TANNOY
FULL RANGE	P.O.A.

TECHNICS
SAG530	P.O.A.
SAGX550LK	P.O.A.

YAMAHA
DSPA500	P.O.A.
DSPA1000	P.O.A.
DSPA2070	P.O.A.
DSPE200	P.O.A.
DSPE1000	P.O.A.
RXV470	P.O.A.
DSPA970	P.O.A.
NSE80	P.O.A.
NSC80	P.O.A.
NSC110	P.O.A.

TUNERS

AIWA
XT003	£99.95

CAMBRIDGE
T50	£79.95

DENON
TU260L	£119.95
TU560L	£159.95
TU380RD	£189.95
TU580	P.O.A.

KENWOOD
KT1030L	£79.95
KT2030L	£89.95
KT3050LED	£129.95
KT7020	£129.95
KT6040	£169.95

MARANTZ
ST35L	£99.95
ST40	£119.95
ST50L	£139.95
ST72LED	£199.95

NAD
402ED	£149.95

NAKAMICHI
ST2ED	£199.95

PHILIPS
FT910	£79.95
FT930	£99.95
FT920	£99.95

PIONEER
F201L	£79.95
F202L	£99.95
F676	£119.95
F550RDS	£119.95
F401L	£119.95
F301RDS	£149.95
F502RDS	P.O.A.

ROTEL
RT930AX	£159.95
RT950BX	£199.95

SONY
STS211LB	P.O.A.
STS170	£119.95
STS311LB	P.O.A.
STS570ES	£199.95
STS505ES	P.O.A.
STS770 ES	£199.95

TECHNICS
ST610LED	£99.95
STG630RDS	P.O.A.
STGT550	P.O.A.
ST610L	£109.95
STG90LKED	£199.95
STGT650	P.O.A.

YAMAHA
TX550	£99.95
TX350	£129.95
TX950	£149.95

RECEIVERS

DENON
DRA435	£199.95
DRA345R	£249.95
DRA545R	£319.95

JVC
RX506VBK	£199.95

KENWOOD
KRA5040	£199.95
KRV6050	£289.95
KRV6060	£299.95
KRV7050ED	£349.95

MARANTZ
SR53	£199.95.

NAD
701/705	£249.95.

PIONEER
SX777	£199.95

SONY
STRD311	P.O.A.
STRD390	£179.95
STRD590	£189.95
STRD511ED	£189.95
STRD790	£199.95
STRD711	P.O.A.

TECHNICS
SAGX530LK	P.O.A.
SAGX130DLK	£159.95
SAGX230DLK	£199.95
SAGLX550LK	P.O.A.
SAGX350LK	£329.95

YAMAHA
RX550	£199.95
RXV470	P.O.A.
RX360	£359.95

CASSETTE DECKS

AKAI
DX57	£199.95
GX95 II	£329.95

AIWA
ADF450	P.O.A.
ADF410	£99.95
ADWX727ED	£149.95
ADWX828ED	£169.95
ADWX929ED	£199.95
ADF850	P.O.A.
ADF810	£179.95
XKS7000	£299.95

DENON
DRM510	£99.95
DRM540	£159.95
DRM610	£169.95
DRS810	P.O.A.
DRM710ED	£219.95
DRW760	£249.95

KENWOOD
KX3050	P.O.A.
KX5050	P.O.A.
KX-W30	£129.95
KX-W8040	£149.95
KX9050S	P.O.A.

MARANTZ
SD52	£139.95
SD62	£149.95
SD63	£229.95
SD53	£269.95

NAKAMICHI
DR3	P.O.A.
DR2	P.O.A.

PHILIPS
DCC900	£249.95

PIONEER
CTS210	£69.95
CTS310	£89.95
CTW420R	P.O.A
CTS410	£149.95
CTS320	£149.95
CTW620R	P.O.A
CTS520	£169.95
CTS510	£169.95
CTS620	£199.95
CTS810	£199.95
CTS610	£199.95
CTW820R	£249.95
CTS900S	£399.95

SONY
TCFX211	£59.95
TCFX170B	£69.95
TCK311ED	£109.95
TCK370	£119.95
TCK411	£139.95
TCK470	£149.95
TCWR435	£169.95
TCWR535B	£169.95
TCK511S	£169.95
TCC5	£229.95
TCK611S	P.O.A
TCWR635S	£249.95
DTC690	£399.95

TECHNICS
RSBX404ED	£139.95
RSTR232KED	£139.95
RSTR333KED	£159.95
RSBX646KED	£179.95
RSTR515KED	£199.95
RSBX747KED	£249.95

YAMAHA
KX260	£139.95
KXW162	£149.95
KXW262	£149.95
KX360	£159.95
KX650	£229.95

TURNTABLES

DUAL
CS431	£59.95
CS435	P.O.A.
CS503/2	P.O.A.
CS505/4	P.O.A.

KENWOOD
KD491F	P.O.A.
P26	£79.95

SONY
PSLX100B	£54.95
PSLX150B	£99.95
PSLX431B	£149.95

TECHNICS
SLDB22K	P.O.A.
SL1200	P.O.A.
SL1210	P.O.A.

SPEAKERS

B & W
DM600IMP	P.O.A.
DM610IMP	P.O.A.
DM620IMP	P.O.A.

CELESTION
CEL1	P.O.A.
CEL 3	P.O.A.
3RD DIM	£99.95
CEL 5	£129.95
DITTON 1	£139.95
DITTON 2BL	£149.95
CEL 7	£169.95
DITTON 2 W	£169.95
CEL 9BL	£169.95
CEL 9 OAK	£199.95
CEL 15BL	£249.95
CEL 15OAK	£299.95
5000	£399.95

CERWIN VEGA
AT40	£249.95
AT60	£299.95
AT80	£399.95
VS10	P.O.A.
VS12	P.O.A.
AT100	£499.95
VSI515	P.O.A.

JPW
MINIM WL	£49.95
MINIM BL	P.O.A.
SUBWOOFER	P.O.A.
SONATA WL	£69.95
SONATA BL	£99.95
PI	P.O.A.
AP2	P.O.A.
AP3	P.O.A.

MISSION
760i	£129.95
760iSE	£149.95
761i	£179.95
780SE	£239.95
762i	£249.95
781	£249.95
763	£379.95
764i	£479.95
765i	£679.95
STANDS	£59.95

MONITOR AUDIO
STUD5.	£299.95
MA800G RO	£349.95
MA14GII	£399.95
MA800G BL	£399.95
STUD 6	£499.95
STUD 10	£699.95
MA1800 RO	£699.95
STUD 15	£799.95

MORDAUNT SHORT
MS5.10.SBL	£49.95
MS10	P.O.A
MS5.10 BL	£99.95
MS20	P.O.A
MS30	£169.95
MS5.50RO	£329.95
MS5.50BL	£349.95
MS40	P.O.A
MS50	P.O.A

NAD
801	P.O.A.
802ED	£169.95
804ED	£289.95

SONY
SSA505	£49.95
SS85E	P.O.A
SS125E	P.O.A
APM181ES	£199.95
SSS70ES	£319.95

TANNOY
603.2ED	£99.95
605.2ED	£129.95
607.2ED	£169.95
609.2ED	£199.95
611.2ED	£349.95
613.2ED	£499.95
615.2ED	£599.95

WHARFEDALE
Delta 30 II	£49.95
Diamond 5	£59.95
CRS3ED	£59.95
CRS5	£129.95
425	£129.95
CRS7	£199.95
CRS9	£299.95

YAMAHA
NSB50	£129.95

EQUALISERS

KENWOOD
GE 4030	£149.95
GE 7030ED	£199.95

SONY
SEQ411	£99.95

TECHNICS
SHGE70EK	P.O.A
SHGE90K	P.O.A

MINI SYSTEMS

AKAI
MX92	£269.95
MX570	£349.95
MX670	£399.95
MX770	£449.95
MX970	£499.95

AIWA
NSX270	£199.95
LCX9	P.O.A.
NSX360G	£239.95
NSX340	£249.95
LCX7	£269.95
LCX10	P.O.A.
NSX430	P.O.A.
NSX520	P.O.A.
NSX500	£279.95
NSXD707	£399.95
NSXD909	£449.95

DENON
D65	P.O.A.
D70	£449.95
D100	£499.95
D90	P.O.A.
D110	P.O.A.
D250	P.O.A.
DF10	P.O.A.

JVC
UX1	£229.95
UX A3	£259.95
UXT1	£259.95
UXA5	£319.95
ADAS20	P.O.A.
ADA S2	£299.95
UXA4	£299.95
ADAS30	P.O.A.
ADA S3	£349.95
ADA S4	£399.95
ADA S6	£469.95
ADA G7	£699.95
ADA G9	£899.95

KENWOOD
MSA7	£299.95
UD301	£339.95
UD351M	£389.95
UD500	£399.95
UD551M	£539.95
UD701	£599.95
UD751M	£649.95
UD901	£699.95
UD951M	£849.95

PIONEER
N33	£199.95
N53	£299.95
N53M	£349.95
N63T	£349.95
N73T	£399.95
N73M	£449.95
N93T	£699.95
N93M	£799.95

SONY
MHC450	£299.95
MHC550	£329.95
MHC510CD	£329.95
MHC650	£379.95
MHC710CD	£399.95
MHCC50CD	£449.95
MHC2900	£499.95
MHC2800CD	£499.95
MHCC70CD	£539.95
MHC3800CD	£599.95

TECHNICS
SCCH550	£399.95
SCCH404	£429.95
SCCH650	£449.95
SCCH505	P.O.A.
SCCH655	£499.95
SCCH750	£749.95
SCCH950	£799.95

MIDI SYSTEMS

AKAI
M55CD	£249.95
FX430CD	£299.95
FX630CD	£349.95
FX830CD	£449.95

AIWA
Z720	£299.95
ZD3000	£399.95
ZD5000M	£449.95
ZD7000M	£599.95

JVC
W37CD	£299.95
W58CD	£399.95
W78CD	£499.95

KENWOOD
CM5ES	£79.95
CM7ES	£99.95
CS6	£149.95
SN900	£219.95
M28	P.O.A.
M27	£449.95
M47	£499.95
M56	£499.95
M76	£599.95
M57	£699.95
M77	£799.95
M97	£949.95

PIONEER
J10	£299.95
J20	£399.95
J10M	£349.95
J30	£399.95
J20M	£549.95
J30M	£499.95
J40	£599.95
J40M	£599.95
J50	£599.95
J50M	£599.95

SONY
C108CD	£269.95
C109CD	£269.95
C190	£329.95
C195	£379.95
C159CD	£399.95
C209CD	£399.95
C259CD	£349.95
C359CD	£549.95
C559CD	£499.95
C759CD	£549.95

TECHNICS
CDX120	P.O.A.
CDX320	P.O.A.
CDX520	P.O.A.

COMPACT DISCS

AIWA
XC300	P.O.A.
XC750	£129.95
XC950*	£149.95

DENON
DCD690*	£129.95
DCD595*	£179.95
DCD695	£199.95
DCD890*	£269.95
DCD1290*	£329.95
DCM340*	£349.95
DCD2560*	£599.95

KENWOOD
DP5040	£129.95
DP2050	£149.95
DP3050	£179.95
DP5050	£229.95
DPM6650	£239.95
DP7050ED	£249.95

MARANTZ
CD53	P.O.A.
CD42II	£129.95
CD52IIED	£149.95
CD63	P.O.A.
CD52 IISED	£199.95
CD72	£269.95
CD10	P.O.A.

NAD
501ED	£149.95
502ED	£179.95

NAKAMICHI
CD4	£239.95

PHILIPS
CD162	£69.95
CD164	£89.95
CD692	£99.95
CD732	£119.95
CD930	£129.95
CD920	£129.95
CDC935	£169.95

PIONEER
PD201	£99.95
PD202	£119.95
PDS501	£149.95
PDS601	£149.95
PDS502	£149.95
PDM602ED	£169.95
PDS701	£179.95
PDS702	£179.95
PDS801ED	£199.95
CLD2600	£229.95
PDS802	£269.95
PDS901	£299.95

ROTEL
RCD945AX*	£229.95
RCD965	£299.95
RCD965BXLE	£399.95

SONY
CDPM33	£69.95
CDPM43	£99.95
CDP497	£99.95
CDPM54	£99.95
CDP597	£129.95
CDP797	£129.95
CDP311ED	£129.95
CDP411ED	£139.95
CDP711ED	£169.95
CDP791	£199.95
CDP911ED	£229.95
CDPX303ES	£329.95

TEAC
CDP3500	£149.95
VRDS10	£699.95

TECHNICS
SLPJ38	£99.95
SLPG340ED*	£129.95
SLP520A	£129.95
SLPG440ED*	£139.95
SLPG540AK*	£199.95
SLPS740AK*	£249.95
SLPS840AK*	£419.95
SLP2000	P.O.A.

YAMAHA
CDX470	£159.95
CDX660	£169.95
CDC635	£169.95
CDX860	£169.95
CDX570	£189.95
CDX870	£199.95
CDX670	£229.95

HALF PRICE

SONY
DOLBY SURROUND SOUND SPEAKERS
60 WATTS
2 FRONT 2 REAR
1 CENTRE
£129.95
FOR ALL FIVE

OPENING TIMES
MON - SAT 9-6 pm FRIDAY 7 pm
CLOSED THURSDAYS

USE COUPON TO CLAIM
SIX FREE C.D. DISCS
WITH ALL STAR * PURCHASE C.D. PLAYERS
AT PRICE LIST ABOVE

ALL PRICES SPECIAL TO HI FI CHOICE READERS, USE COUPONS TO QUALIFY
V.A.T. FREE PERSONAL ORDERS WELCOME. PRICES SUBJECT TO CHANGE E. & O.E.
ALL SYSTEMS AVAILABLE WITH SPEAKERS FROM £20 A PAIR. E.D.: EX DISPLAY FULLY GUARANTEED

HYPER HI-FI

LONGBRIDGE ROAD
BARKING, ESSEX IG11 8TG.
081-591 6961
FAX: 081-594 3996

MAIL ORDER CUT OFF COUPON
Please add £6 per item for insured Securicor deliveries.

HC8

Please supply (make/model) .....

.....

I enclose Cheque/P.O. .....Payable "Hyper-fi"

Mastercard or Visa No. EXPIRY DATE / /

Name .....Signature .....

Address .....

.....Postcode .....

Daytime/Works Tel: (STD CODE) ..... No .....

SALE PHONE FOR BETTER PRICES



Key to headphones
Price - typical retail, to nearest pound.
Type - Opn - open back, vented or velocity type; gives less environmental isolation, but is usually more natural feeling in extended use. Sld - sealed - the headphones form an air seal around the ears, helping reduce sound leakage. IR - Infra red cordless. Ear - in-ear model.

Weight - without cable.
Impedance - in ohms.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Weight	Impedance	Special
HEADPHONES					
Sony MDR-E515V	12	Ear	5	-	1m lead, mini plug
Sony MDR-V50	13	Sld	-	-	-
Sony MDR-E525	15	Ear	5	-	1m lead, mini plug
Sony MDR-24	15	Opn	-	-	7m, 3.5/6.3mm plug
Sony MDR-W12L	16	Ear	-	-	1.2m mini plug
Sony MDR-008TV	17	Opn	-	-	5m, 3.5/6.3mm plug
Sony MDR-E535	18	Ear	5	-	1.2m lead, mini plug
Sony MDR-44	18	Opn	-	-	7m, 3.5/6.3mm plug
Sony MDR-009TV	19	Opn	-	-	5m, 3.5/6.3mm plug
Sony MDR-CD30	20	Sld	-	-	2m, 3.5/6.3mm plug
Sony MDR-E747MP	20	Ear	6	-	1.2m lead, mini plug
Sony MDR-CD50	20	Sld	180	24	2m, 3.5/6.3mm plug
Sony MDR-5747	20	Ear	6	-	1.2m lead, mini plug
Sony MDR-P1TV	22	Sld	-	-	5m, 3.5/6.3mm plug
Sony MDR-A22L	22	Ear	-	-	1.2m mini plug
Sony MDR-CD250EX	28	Sld	-	-	3m, 3.5/6.3mm lead
Sony MDR-CD450	45	Sld	260	24	3m, 3.5/6.3mm plug
Sony MDR-CD550	60	Sld	270	45	3m, 3.5/6.3mm plug
Sony MDR-D33	70	Sld	120	45	1.5m, 3.5/6.3mm plug
Sony MDR-IF210K	80	IR	170	-	Seven meter range infra red
Sony MDR-D55	90	Sld	120	45	1.5m, 3.5/6.3mm plug
Sony MDR-CD750	90	Sld	290	45	3m, 3.5/6.3mm plug
Sony MDR-D77	120	Sld	140	45	1.5m, 3.5/6.3mm plug
Sony MDR-610k	190	IR	470	-	Seven meter range infra-red
Sony MDR-CD1000	200	Sld	330	45	1.5m, 3.5/6.3mm plug
Stax SR34	169	Opn	170	-	
Stax SR Gamma	239	Opn	300	-	
Stax SR84	259	Opn	160	-	
Stax SR Lambda	349	Opn	325	-	
Stax Gamma Pro	399	Opn	300	-	
Stax Lambda Pro	449	Opn	325	-	
Stax Lambda Sig	549	Opn	325	-	
Technics RP-HT77	30	Sld	150	32	3m lead
Technics RP-HT86	40	Sld	150	35	3m lead
Technics RP-HT116	60	Sld	190	35	3m lead
Technics RP-F10	100	Sld	300	32	3m lead
Technics RP-F30	180	Sld	340	32	3m lead
Vivanco SR35 Micro	12	Ear	4	18	For personal stereos
Vivanco SR65 Mini	13	Opn	30	32	For portable CD players
Vivanco SR25 Micro	14	Ear	4	18	Includes case
Vivanco SR45 Micro	15	Ear	4	18	Including volume control
Vivanco SR474	32	Opn	110	36	Soft ear cushions
Vivanco SR606	40	Opn	225	32	3.5/6.3mm plug
Vivanco SR808	55	Opn	250	30	3.5/6.3mm plug
Vivanco SR909	70	Opn	285	600	Remote control lead, all plugs
Vivanco IR900	70	Opn	235	-	Infra-red cordless
Vivanco SR10001/1	110	Opn	265	100	In-front localisation
Vivanco SR9001s	120	Opn	280	-	Infra-red cordless

Model	Price	Type	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS							
Acoustic Energy Aegis 1	452	2x Pt	86	8	150	21,39,26	Stand mount, metal cone
Acoustic Energy Aegis 2	799	2x Pt	86	8	200	33,106,26	Floor, reflex, metal cone
Acoustic Energy AE1	950	2x Pt	88	8	200	26,30,18	Metal dome/cone, solid enc
Acoustic Energy AE2	1175	2x Pt	91	6	200	24,40,32	Twin bass, metal cone
Acoustic Energy AE3	1650	3x Pt	87	4	250	37,27,63	Simplified metal dome/cone
Advent Mini	99	-	88	8	120	16,28,14	Bookshelf/stand mount
Advent Baby 2	149	2x	89	8	75	26,39,15	Bookshelf/stand mount
Advent Graduate	219	2x	89	8	210	28,44,17	Bookshelf/stand mount
Advent Prodigy	299	-	89	8	300	24,68,20	Floor standing, free space
Advent Legacy 2	349	-	90	8	500	38,67,22	Floor standing, free space
Advent Laureate	499	-	90	8	500	21,80,29	Floor standing, free space
Advent Heritage	579	-	90	8	600	25,89,31	Floor standing, free space
Allison AL100	100	2x	90	4	150	33,24,19	Boundary, stand mount
Allison AL105	170	2x	90	4	150	24,37,21	Boundary, stand mount
Allison MS200	220	-	90	4	75	13,25,14	Boundary, stand mount
Allison AL110	220	-	90	4	150	24,40,23	Floor standing, free space
Allison AL115	280	-	90	4	150	28,51,26	Boundary, stand mount
Allison CD6	300	-	90	4	150	29,29,29	Cuboid, wall mount
Allison CD7	380	-	90	4	150	24,70,24	Floor standing, free space
Allison AL120	420	-	90	4	200	28,61,29	Floor standing, free space
Allison CD8	550	-	90	4	200	27,73,27	Floor standing, free space
Allison AL125	650	-	90	4	200	28,78,29	Open space, free standing
Allison AL130	800	-	90	4	200	32,95,34	Open space, free standing
Allison I.C. 10	2500	-	87	6	200	48,102,27	Floor standing, free space
Allison I.C. 20	5500	-	87	6	400	53,122,31	Floor standing, free space
AMC WM50	120	-	86	8	60	19,28,7	Ceiling mount
AMC WM75	160	-	86	8	80	22,30,9	Ceiling mount
AMC WM100	210	-	86	8	100	26,36,10	Ceiling mount
Apogee Grand	0	Ribbon	86	-	-	71,194,86	Three way ribbon, active sub
Apogee Centaur Minor	1345	Hybrid	88	4	100	30,88,20	Ribbon/dynamic
Apogee Ribbon Wall	1690	Hybrid	89	-	-	27,120,7	Ribbon/dynamic

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Allison AL110	220	N/A	90	4	150	24,40,23	Floor standing, free space



Key to loudspeakers
Price - typical retail, to nearest pound.
Type - 2x, 3x etc - number of independent drive units, Pt - ported, IB - sealed, Active - dedicated active crossover, needs amps for each driver, ABR - auxiliary bass radiator, Sub - subwoofer, Uni-Q - KEF prop. coaxial drive unit, Horn - horn loading, MC - moving coil, ESL - electrostatic, CC - coupled cavity, Hybrid - dynamic bass/ESL or ribbon top.
Sens - output at given power input level.
Impedance - in ohms. Power - maximum recommended amplifier output.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS							
Apogee Centaur	2300	Hybrid	88	4	150	33,102,25	Ribbon/dynamic
Apogee CDD Subwoofer	3490	Hybrid	87	-	-	63,38,55	Active moving coil sub
Apogee Stage Sub	3645	MC	86	-	-	58,25,42	Active moving coil sub
Apogee Caliper Sig	3995	Ribbon	87	-	-	58,127	Two way
Apogee Stage	4000	Ribbon	86	-	-	55,82,5	Two way
Apogee Centaur Major	4980	Hybrid	88	4	200	40,141,27	Ribbon/dynamic
Apogee Studio Grand	14900	Hybrid	87	-	-	63,160,55	Three way ribbon, active sub
AR M.5	139	2x	88	6	-	18,21,15	Boundary, bookshelf mount
AR Pi One	149	-	90	8	60	19,32,17	Stand mount, boundary siting
AR Fun Partner	170	-	90	6	75	27,15,20	Utility model
AR Pi Two	199	-	90	8	100	27,44,2	Stand mount, boundary siting
AR M1	199	-	88	8	100	28,27,20	Boundary, bookshelf mount
AR Pi Three	219	-	89	8	100	21,51,22	Stand mount, boundary siting
AR Active Partner	230	Active	-	-	-	19,27,15	Utility model
AR Rock Partner	240	-	90	8	100	24,37,22	Utility powered (active)
AR M2	299	-	90	8	125	24,42,36	Boundary, bookshelf mount
AR Subwoofer 1MS	300	-	90	4	180	30,21,48	Compact subwoofer
AR M3	349	-	90	8	125	24,55,40	Boundary, bookshelf mount
AR Powered Partner	350	Active	-	-	15	19,27,15	Stand mount, free space
AR Pi Four	399	-	88	8	125	25,57,27	Stand mount, free space
AR M4	429	-	88	8	150	20,72,40	Floor standing, free space
AR M5	799	-	90	8	175	22,92,27	Floor standing, free space
AR M6	899	-	90	8	200	22,106,27	Floor standing, free space
Arcam Delta 2	300	2x Pt	88	8	75	22,38,28	Stand mount
ATC SCM10	995	2x IB	80	8	300	18,38,26	
ATC SCM20	1461	2x IB	83	8	300	31,72,34	Massive build
ATC SCM20 Tower	1999	2x IB	83	8	300	24,103,34	Floor standing SCM20
ATC SCM50	3218	3x Pt	85	8	150	31,72,43	To special order
ATC SCM100	3683	3x Pt	88	8	-	40,84,53	To special order
ATC SCM50A	4497	Active	-	8	350	31,72,48	With crossover and amplifiers
ATC SCM100A	5006	Active	-	8	350	40,84,59	With crossover and amplifiers
Audio Note AN-KB	499	-	90	8	100	28,46,23	Free space, stand mount
Audio Note AN-K/SP	699	-	90	6	100	28,46,23	Free space, stand mount
Audio Note AN-J/B	799	-	93	8	150	38,58,25	Free space, stand mount
Audio Note AN-J/SP	999	-	93	8	150	38,58,25	Free space, stand mount
Audio Note AN-E/B	1299	-	94	8	150	36,84,28	Free space, stand mount
Audio Note AN-E/SP	1599	-	94	8	150	26,84,28	Free space, stand mount
Aura SP-50	400	Pt	87	4	120	21,40,24	Carbon fibre bass unit
B&O Beovox RL1000	215	3x	86	8	60	32,40,13	Simplified RL6000
B&O Beovox CX50	285	2x IB	89	6	100	12,21,21	
B&O Beovox CX100	395	2x IB	89	6	200	12,32,21	
B&O Beovox RL6000	435	3x	87	8	100	41,54,18	Simplified RL7000
B&O Beovox 4500	450	2x Pt	87	8	90	45,38,8	
B&O Beovox RL7000	665	3x	88	8	200	50,70,24	Twin bass
B&O Beolab 4500	1125	Active	-	-	45	45,38,8	Attaches to wall, display
B&O Beolab 6000	1350	Active	-	-	80	20,110,21	Column, two amps, shielded
B&O Beolab 8000	2025	Active	-	-	100	15,132,15	Column, two built in amps
B&O Beolab Penta 3	2375	Active	-	-	150	22,165,34	Line array column, three-way
B&W 2001	120	Pt	87	4	80	18,28,20	Budget hi-fi range, black ash
B&W Solid Team	140	Pt	87	4	75	14,20,14	White & black finish
B&W CWM5	150	2x	89	8	70	16,22,7	In wall
B&W Solid Team Bass	160	Sub	91	4	100	20,45,34	White & black finish
B&W 2002	160	Pt	87	4	80	18,35,20	Budget hi-fi range, black ash
B&W DM600i	190	2x IB	87	4	100	21,36,25	Stand/shelf mount
B&W 2003	190	Pt	89	4	100	20,43,24	Budget hi-fi range, black ash
B&W CWM6	220	2x	89	8	70	23,32,8	In wall
B&W Solid Twin Bass	230	Sub	91	4	150	45,20,60	White & black finish
B&W Solid Monitor	250	Pt	90	8	150	17,24,15	Various colours
B&W DM610i	250	2x IB	89	4	150	24,49,31	Stand/shelf mount
B&W CWM8	250	2x	90	4	100	28,38,9	In wall
B&W 2004	250	Pt	91	4	120	20,65,24	Budget hi-fi range, black ash
B&W Solid Ovale	300	Sat/sub	88	4	100	-	Lifestyle speaker, 3 boxes
B&W Solid Verticale	400	Sat/sub	88	4	100	-	Lifestyle, 3 boxes
B&W DM620i	430	2x ABR	90	4	150	24,75,31	Floor standing
B&W DM630i	700	3x Pt	91	4	200	24,85,41	Floor standing
B&W Matrix 805 V/H	895	Pt	87	8	120	33,33,21	Outboard tweeter (vert/horiz)
B&W DM640i	900	3x Pt	91	4	200	24,97,41	Floor standing
B&W Matrix 804	1495	Pt	89	8	200	26,92,26	Matrix enclosure
B&W Matrix 803 S2	1945	Pt	90	8	250	26,101,34	Matrix enclosure
B&W Matrix 802 S3	2445	Pt	90	8	500	30,104,37	Matrix enclosure
B&W Matrix 801 S3	3500	Pt	87	8	600	44,100,56	Floor, studio monitor
B&W Silver Signature	4500	Pt	88	8	120	25,45,24	External crossover
Bose XL1000	115	Pt	-	8	50	29,19,17	
Bose XL2000	160	Pt	-	8	70	36,23,18	
Bose XL3000	180	Pt	-	8	90	47,29,23	
Bose 101 M'ble Monitor	190	-	-	4	60	13,23,15	Black finish
Bose XL4000	220	Pt	-	8	100	57,32,30	
Bose VS100	250	-	-	8	-	23,15,15	
Bose 151 Environmental	270	-	-	6	60	24,14,16	Waterproof/suitable for extrem
Bose 161 Freestyle	275	-	-	6	60	25,14,16	
Bose 201 Ser III	290	-	-	8	60	38,20,25	Direct/reflecting technology
Bose C'puter RoomMate	300	Active	-	-	60	24,14,16	Self powered AC/shielded, vol
Bose Video RoomMate	300	Active	-	-	60	24,14,16	Self powered AC/shielded, vol
Bose Roomate II	300	Active	-	-	60	24,14,16	Self powered AC/12V DC
Bose 301 VM	380	-	-	8	75	24,43,27	Direct/reflecting technology

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Allison AL110	220	N/A	90	4	150	24,40,23	Floor standing, free space



Key to loudspeakers
Price - typical retail, to nearest pound.
Type - 2x, 3x etc - number of independent drive units, Pt - ported, IB - sealed, Active - dedicated active crossover, needs amps for each driver, ABR - auxiliary bass radiator, Sub - subwoofer, Uni-Q - KEF prop. coaxial drive unit, Horn - horn loading, MC - moving coil, ESL - electrostatic, CC - coupled cavity, Hybrid - dynamic bass/ESL or ribbon top.
Sens - output at given power input level.
Impedance - in ohms. Power - maximum recommended amplifier output.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS							
Bose 305	430	2x	-	8	100	23,45,28	Tall stand mount, boundary
Bose A'mass AM3 II	500	-	-	4-8	50	36,20,20	Acoustimass technology
Bose 401	500	-	-	4	100	30,30,76	Direct/reflecting technology
Bose SE-5 Ser II System	760	-	-	4-8	100	90,100,18	
Bose A'mass AM511	760	-	-	4-8	200	49,35,19	Acoustimass direct/reflecting
Bose A'mass AM7	830	-	-	4-8	100	35,49,19	Acoustimass direct/reflecting
Bose 601 MKIII	880	-	-	8	200	32,31,76	Direct/reflecting technology
Bose 901 V1	1650	1x	-	8	-	33,53,32	Direct/reflecting technology
Boston Acoustics HD5	139	2x	89	8	50	25,16,18	Bookshelf, black
Boston Acoustics 325	139	-	90	4	50	17,17,5	Wall/ceiling white flush mount
Boston Runabout	169	-	89	8	50	22,15,16	White indoor/outdoor system
Boston Acoustics HD7	169	2x	90	8	75	36,23,18	Bookshelf, black
Boston Satellites	170	2x	89	8	-	-	Satellite speakers
Boston Acoustics 350	179	-	-	4	50	24,17,6	Wall/ceiling white flush mount
Boston Acoustics 335	179	-	90	8	50	18,9	Wall mount, round
Boston Acoustics HD8	199	-	90	8	75	46,29,20	Stand/shelf, black
Boston 360 Ser II	209	-	89	8	60	22.15,7	Wall/ceiling, white, flush mou
Boston Acoustics HD9	249	2x ABR	90	8	100	62,32,25	Stand/shelf mount
Boston Acoustics 380	249	-	90	8	75	31,24,8	Wall/ceiling white flush mount
Boston Acoustics Voyager	299	-	89	8	60	26,16,17	White indoor/outdoor, metal
Boston Acoustics SW10	449	Sub	-	-	100	34,17,42	Powered subwoofer
Boston SubSat Six	450	Sat/sub	89	8	100	-	Passive subs and two satellite
Boston SubSat 7	549	-	89	8	125	-	PAssive sub & 2 satellites
Boston Lynfield 300L	1499	-	83	8	250	23,34,28	Stand mount, black
Boston Lynfield 500L	4449	-	85	5	350	122,23,47	Free stand, separate bass/top
Canon S-30	180	2x Pt	90	6	75	25,31,28	Wide imaging stereo
Canon V-100	210	2x Pt	90	4	75	25,325,17	Corner mount
Canon V-SB100	250	Sub	88	6	150	37,34,21	Subwoofer for V100
Canon S-50	350	2x Pt	89	8	100	25,31,25	Wide imaging stereo
Canon S-70	695	2x Pt	89	6	150	25,780,25	Wide imaging stereo
Castle Trent II	189	Pt	89	8	60	20,34,18	Shelf/stand, nine finishes
Castle Durham II	249	Pt	89	8	75	22,40,23	Shelf/stand, nine finishes
Castle Durham 900	279	Pt	90	8	85	22,40,23	Shelf/stand, nine finishes
Castle York	349	Pt	89	8	100	26,43,22	Shelf/stand, nine finishes
Castle Chester	649	-	90	8	100	23,91,25	Free standing, nine finishes
Castle Howard	999	-	90	8	125	26,104,41	Free standing, nine finishes
Castle Winchester	1499	3x	90	8	150	42,108,23	Free standing, quarter wave
Celestion 1	109	-	86	8	50	16,27,21	
Celestion CSC	129	-	89	6	75	33,13,15	
Celestion 3 MKII	129	-	88	8	75	21,31,18	Integrated LF/baffle moulding
Celestion CS135	139	-	86	8	90	52,19,34	
Celestion CS2	149	-	86	8	60	16,29,22	
Celestion CS4	169	-	87	8	75	18,33,23	
Celestion 5 MkII	169	-	89	8	90	25,35,21	Larger version of Celestion 3
Celestion 9	269	-	89	8	100	21,50,25	
Celestion 15	389	-	89	8	100	21,100,23	
Celestion SL6Si	429	2x	84	8	120	20,38,27	Compact stand mount, free spac
Celestion CS6	449	-	88	8	100	19,85,31	
Celestion CS8	499	-	88	8	120	19,100,31	
Celestion 100	539	-	84	8	120	21,42, 26	
Celestion SL12si	629	-	86	8	150	20,53,29	
Celestion SL600si	820	-	82	8	120	20,37,24	Aerolam lightweight enclosure
Celestion 300	1099	-	84	8	120	21,97,33	
Celestion 700SE	1435	-	82	8	120	20,37,24	
Cerwin Vega L-7	150	2x	92	8	75	23,36,23	Bookshelf, high sensitivity
Cerwin Vega VS8	250	2x	94	6	100	28,51,29	Bookshelf
Cerwin Vega SAT-6	300	Sat/sub	95	-	125	22,25,32	3 box satellite/subwoofer
Cerwin Vega VS10	350	3x	95	6	125	33,70,29	Floor standing
Cerwin Vega VS12	550	3x Pt	97	4	250	42,81,38	Floor standing
Cerwin Vega DC10	550	3x Pt	96	-	200	29,94,35	Floor standing
Cerwin Vega DC12	650	3x Pt	98	-	300	36,98,35	Floor standing
Cerwin Vega VS15	700	3x Pt	102	4	400	46,90,47	Floor standing
Cerwin Vega DC15	850	3x Pt	100	-	500	44,103,46	Floor standing
Cerwin Vega 1515	1300	6x Pt	103	4	600	44,135,46	Floor standing, hi sensitivity
Chord Sys Audio 905	249	2x	-	-	-	-	
Clements 300si	645	-	89	4-8	90	24,36,36	
Clements 600si	995	-	88	4-8	100	24,81,36	
Clements Reference 1	1695	-	86	8	100	20,43,29	
Clements Reference 7	3750	-	88	4.5	200	25,114, 4	
Dali 102	250	-	88	6	100	21,32,26	
Dali 104	400	-	93	4	120	86,22,27	
Dali 400	700	-	93	4	180	24,97,34	
Dali Skyline 1000	1600	-	88	-	120	-	
Dali Skyline 2000	2200	-	88	4	120	51,160,45	
Dawn Audio Chorus BS	482	2x IB	89	8	-	26,38,21	Bookshelf
Dawn Audio Chorus FS	698	2x IB	89	8	-	26,88,21	Floor standing
Dawn Audio Symphony	1995	3x IB	91	8	-	34,113,32	Floor standing
Denon SCM2	80	IB	87	6	70	19,28,20	UK designeed & built
ECA SERV A.2	1850	2x Pt	80	8	150	22,102,30	True ribbon tweeter
Epos ES11	395	Pt	87	8	75	20,38,25	Free space, stand mount
Epos ES14	595	Pt	87	8	100	23,49,29	Free space, stand mount
Faraday FS1	225	-	87	8	75	27,46,25	
Faraday SG	345	-	89	4	75	27,26,25	
Faraday FS5	575	-	90	4	80	27,46,25	
Fullers Sultan	399	2xPt	91	8	50	24,51,30	3 finishes

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Allison AL110	220	N/A	90	4	150	24,40,23	Floor standing, free space



Key to loudspeakers
Price - typical retail, to nearest pound.
Type - 2x, 3x etc - number of independent drive units, Pt - ported, IB - sealed, Active - dedicated active crossover, needs amps for each driver, ABR - auxiliary bass radiator, Sub - subwoofer, Uni-Q - KEF prop. coaxial drive unit, Horn - horn loading, MC - moving coil, ESL - electrostatic, CC - coupled cavity, Hybrid - dynamic bass/ESL or ribbon top.
Sens - output at given power input level.
Impedance - in ohms. Power - maximum recommended amplifier output.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS							
Fullers Sultan H.E.	439	2xPt	98	8	90	24,51,30	High sensitivity, 3 finishes
Fullers Pharaoh 1	649	2xPt	88	8	60	20,30,20	Curved sides, various finishes
Fullers Audio Pharoah 1	649	-	88	8	70	20,30,20	
Fullers Sphinx	839	3x	89	8	70	25,91,30	Floor standing, var finishes
Fullers A Sphinx	999	-	89	8	70	25,91,30	
Fullers Pharaoh 2	1200	3xPt	88	8	80	39,100,31	Pharaoh 1 with added bass encl
Fullers A Pharoah 2	1200	-	88	8	80	39,100,31	
Fullers Pharaoh 3	2499	4xPt	88	8	150	46,118,45	Pharaoh + bass & subbass encls
Fullers A Pharoah 3	2499	-	88	-	-	46,118,45	
Genelec 1019A	1572	Active	-	-	28	23,31,25	
Genelec Blamp 1031A	2068	Active	-	-	104	25,39,29	
Genelec Triamp S30	3055	Active	-	-	108	32,50,32	
Genelec Triamp 1037A	4982	Active	-	-	191	40,68,30	
Genexxa GX330	80	-	-	6	50	35,21,24	
Genexxa GX650	140	-	90	8	60	23,76,26	
GLL Arena	89	-	87	6	70	26,23,14	
GLL Maxim	119	-	86	6	100	10,26,17	
GLL Mezzo	159	-	88	6	100	21,36,25	
GLL Magnum	199	-	86	6	100	25,42,29	
Goodmans Active 75	65	Active	-	-	80	-	
Goodmans M100	80	2x	86	8	75	17,26,20	Bookshelf, close to wall
Goodmans HT100	100	-	86	8	60	25,53,20	
Goodmans HT170	150	-	92	8	100	25,70,22	
Grundig MBX310	80	3xPt	-	4	70	18,42,29	3 drivers, 2 way
Grundig BX1	150	2x Pt	-	4	60	23,40,30	16 litre
Grundig BX2	230	3x Pt	-	4	80	24,49,33	22 litre
Grundig BX3	350	2x Pt	-	4	120	24,107,34	53 litre, 3 drivers, 2 way
Harbeth HL-P3	479	IB	83	4	100	19,31,17	Free standing, shielded, biwir
Harbeth BBC LS3/5A	539	IB	82	10	75	19,31,19	Free standing
Harbeth HL-5	999	Pt	86	8	100	63,33,32	Free standing
Harbeth BBC LS5/12A	999	Pt	82	8	120	60,19,22	Free standing, biwire, shielde
Harman-Kardon LS0200	149	-	87	8	50	21,35,30	
Harman-Kardon LS0300	199	-	88	8	75	21,38,80	
Helius Syrius IV	830	-	90	4	200	23,61,28	
Helius Syrius III	1330	Pt	90	8	250	31,97,16	
Helius Syrius II	1975	Pt	95	4	300	36,107,16	
Helius Syrius I	2500	Pt	93	4	500	36,107,16	Floor standing, biwire
Heybrook Prima	130	Pt	87	6	60	20,29,18	Bookshelf or stands
Heybrook Solo	189	2x	89	6	75	23,36,23	Boundary design, stands requir
Heybrook HB1	259	2x	90	8	75	29,47,23	Boundary, stands required
Heybrook Trio	359	2x	89	8	75	24,47,25	
Heybrook Quartet	555	-	90	8	80	24,41,22	
Heybrook Sextet	1099	3x	88	8	200	27,90,20	With stands
Impulse H7	835	Horn	88	8	70	14,80,29	Floor standing
Impulse H6	1425	Horn	89	8	100	19,91,35	Floor standing
Impulse H5	1675	Horn	93	8	100	27,90,45	Floor standing
Impulse H2	2385	Horn	94	8	100	26,116,45	Floor standing
Impulse H1	3400	Horn	96	8	100	36,103,68	Floor standing
Infinity Ref 10	200	IB	90	6	75	23,37,23	Pedestal
Infinity Ref 20	300	IB	90	6	100	27,47,26	Pedestal
Infinity Inf IV Sat	300	IB	90	6	80	16,24,18	Wall mount, shielded
Infinity Ref 30	400	IB	90	6	100	27,84,25	Floor standing
Infinity Inf Micro	400	Pt/sub	90	6	100	21,x 127d	Two satellites and passive sub
Infinity SSW-10 Sub	500	Active	-	-	-	34,34,33	
Infinity Modulus	795	Pt	86	5	200	27,31,18	High end compact
Infinity Modulus Sats	795	IB	88	5	125	31,18,27	Pedestal
Infinity Kappa 6.1i	995	Pt	89	6	150	31,95,25	Floor standing
Infinity Kappa 7.1i	1195	Pt	89	6	225	36,108,26	Floor standing
Interaudio XL1000	100	-	-	8	50	19,29,17	
Interaudio XL2000	140	-	-	8	70	23,36,18	
Interaudio XL3000	160	-	-	8	70	29,46,23	
Interaudio XL4000	200	-	-	8	75	32,56,29	
Jamo Sat 160	100	2x IB	90	8	50	14,19,48	Shelf/wall mount, with wall br
Jamo D115	100	-	90	4-8	60	24,42,22	
Jamo Compact 500	100	2x Pt	90	8	60	16,25,20	High sensitivity, utility desi
Jamo Cornet 30.3	100	2x Pt	88	8	55	20,32,23	Black ash - Mahogany £20 extra
Jamo Sat 200	110	2x	90	8	50	15,22,8	Stereo passive subwoofer
Jamo Outdoor	110	2x IB	90	8	50	19,34,48	Including wall brackets, weath
Jamo Sat 300	120	2x	90	8	50	15,21,8	Use with SW500
Jamo Compact 700	120	2x Pt	91	8	70	19,30.20	High sensitivity, utility desi
Jamo Cornet 40.3	130	2x Pt	89	8	60	20,32,23	Black ash - Mahogany £20 extra
Jamo Sat 500	150	2x Pt	90	8	50	16,21,14	Satellites for SW500
Jamo D135	150	-	93	4-8	80	28,52,25	
Jamo Converta	150	2x Pt	90	8	50	9,25,24	Lamp-like appearance
Jamo Compact 1000	150	-	92	8	90	23,37,22	High sensitivity, utility desi
Jamo D165	180	-	93	4-8	100	28,52,25	
Jamo Cornet 60.3	180	2x Pt	90	8	80	23,42,27	Black ash - Mahogany £20 extra
Jamo Outdoor 2	200	2x Pt	90	4	60	18,32,12	Including wall brackets, weath
Jamo SW160 System	230	-	90	8	-	20,34,48	Compact passive subwoofer
Jamo Art	230	2x Pt	88	8	60	35,40,9	Shape and size of shallow 20 i
Jamo 307	270	2x Pt	87	6	70	18,31,27	Stand mount
Jamo BX100	300	3x Pt	91	8	100	22,55,28	Floor or stand mount
Jamo 407	350	2x Pt	88	6	80	22,41,29	Stand mount
Jamo Graphic	350	2x Pt	88	6	60	39,44,8	Wall mount
Jamo Atmosphere	380	2x Pt	88	8	60	27,37,16	Wall mount, doubles as lamp

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Allison AL110	220	N/A	90	4	150	24,40,23	Floor standing, free space



Key to loudspeakers
Price - typical retail, to nearest pound.
Type - 2x, 3x etc - number of independent drive units, Pt - ported, IB - sealed, Active - dedicated active crossover, needs amps for each driver, ABR - auxiliary bass radiator, Sub - subwoofer, Uni-Q - KEF prop. coaxial drive unit, Horn - horn loading, MC - moving coil, ESL - electrostatic, CC - coupled cavity, Hybrid - dynamic bass/ESL or ribbon top.
Sens - output at given power input level.
Impedance - in ohms. Power - maximum recommended amplifier output.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS							
Jamo D365	390	-	96	4-8	200	46,78,35	
Jamo BX150	390	3x Pt	82	8	150	28,83,31	Floor mount
Jamo Silhouette	400	-	90	5	80	25,122,17	
Jamo SW500 System	430	2x	90	8	140	41,38,53	Passive stereo subwoofer
Jamo BX200	450	3x Pt	83	8	250	43,72,33	Floor mount
Jamo 477	500	2x Pt	86	4	100	19,77,29	Floor standing
Jamo 507	700	3x Pt	88	4	150	22,91,37	
Jamo 707	900	3x Pt	90	4	200	24,104,39	
Jamo Oriel	6000	3x	87	6	300	40,178,30	Floor standing, coupled cavity
JBL Control One	115	2xPt	87	4	150	24,156,14	Shielded, wall mountable
JBL 4208	449	-	89	8	300	29,45,23	
JBL L1	479	2x Pt	87	8	200	25,40,20	Asymmetric, time aligned
JBL HTS-1	629	-	-		150	-	
JBL L3	699	2x Pt	89	8	200	30,86,24	Asymmetric, time aligned
JBL HTS-2 system	800	-	-	4	150	-	
JBL HTS-3	999	-	-		180	-	
JBL L5	1299	3x Pt	90	6	300	26,45,33	Asymmetric, time aligned
JBL Ti 1000	1500	2x IB	89	4	150	20,30,13	Asymmetric, double wall
JBL L7	1699	4x Pt	89	4	200	117,25,45	Asymmetric, time aligned
JBL Ti 2000	2000	3x IB	89	4	200	33,82,30	Asymmetric, double wall
JBL Ti 3000	2499	3x IB	90	6	200	46,105,35	Asymmetric, double wall
JBL i 5000	3499	3x IB	91	6	300	48,114,38	Asymmetric, double wall
Jordan Watts JHFLG	420	-	-	-	-	-	Flagon pottery colour
Jordan Watts JH200	510	1x IB	86	8	80	19,33,17	Bookshelf or stand mount
Jordan Watts JH400	820	1x IB	86	8	80	28,32,17	Marble finish available £970
J Watts Aspect JH1+1	2745	2xIB	85	8	100	40,93,23	Matt - alt finishes extra
Jordan Watts JH2K	3230	-	-	-	-	-	
J Watts Classic JH2KM	4250	2x	87	8	150	47,82,34	Line tweeter array
J Watts Classic JH5K	4875	2x IB	89	8	250	47,126,40	Floor stand, line array
J Watts Classic JH5KM	5860	2x	89	8	250	47,125,40	Line driver array
J Watts Classic JH10K	9340	2x IB	92	8	500	47,156,40	Floor stand, line array
Jordan Watts JH10EM	10495	2xIB	92	8	500	47,156,40	Line driver array
JPW Minim SGL SHD	50	2x	87	6	70	13,23,10	
JPW Satellite SGL SHD	50	2x	85	8	70	13,23,10	
JPW Satellite	80	2x	85	8	70	13,24,10	
JPW Minim	80	2x	87	6	70	19,28,20	135mm bass, 14mm treble
JPW Minim Pair Solid	89	2x	87	6	70	19,28,20	
JPW Sonata Vinyl	100	2x	87	8	70	13,23,10	
JPW Sonata	120	2x	87	8	70	23,32,22	165mm bass, 14mm treble
JPW Subwoofer	130	1x	95	8	80	25,51,27	
JPW Sonata Plus	140	2x	87	8	70	23,32,22	165mm bass, 25mm treble
JPW P1 Vinyl	150	2x	89	8	70	13,23,10	
JPW P1	170	2x	89	8	70	26,44,25	200mm bass, 19mm treble
JPW AP2	200	2x	89	8	80	26,44,25	200mm bass, 19mm treble
JPW AP3	230	2x	88	8	100	26,52,29	200mm bass, 19mm treble
JVC SPX220TBK	100	3x Pt	90	8	60	24,66,24	
JVC SPX550BK	120	3x Pt	90	8	60	24,66,24	
JVC SPX770BX	150	3x Pt	90	8	80	28,75,25	
JVC SPX990BK	230	3x Pt	91	8	100	31,86,27	
JVC SX-SW9	300	2xPt	90	6	100	-	Satellite subwoofer system
JVC SX911WD	660	3x Pt	91	6	150	38,63,35	
JVC SX500	700	2x Pt	90	6	180	27,45,28	
KAL Mini-Ref MKII	395	-	86	8	120	23,27,17	
KAL Mini-Tower	619	-	89	6	150	17,90,22	
KAL Compact Ref	650	-	89	8	140	23,36,27	
KAL Tunejal	795	-	89	8	150	23,100,27	
KAL Trans-double	1500	-	89	8	250	23,112,36	
KAL Warlock	1600	-	90	6	250	25,113,36	
KEF K120	169	2x IB	87	8	80	21,34,25	Stand/bookshelf
KEF Q10	199	2x Pt	88	6	100	19,28,24	Uni Q, shielded
KEF K140	239	2x IB	89	8	100	26,49,25	Stand/bookshelf
KEF K160	329	2x ABR	89	8	150	26,75,25	Floor standing
KEF Q30	349	2x Pt	88	6	125	19,70,28	Uni Q, shielded, floor standin
KEF Q60	419	2x Pt	90	6	175	19,102,28	Uni Q,3 shielded, floor standi
KEF Q50	499	3x Pt	89	6	150	19,80,28	Uni Q, shielded, floor standin
KEF 101/3	549	2x	89	4	150	22,50,27	Uni Q bass EQ option
KEF Q80	569	2x ABR	89	8	125	25,86,28	Uni Q floor standing
KEF Q70	699	3x	90	6	175	19,102,28	Uni-Q, shielded, floor standin
KEF Q90	739	3x Pt	89	8	150	25,89,32	Uni Q floor standing
KEF 102/2MS	749	2x	87	6	150	22,33,27	Uni Q, shielded shelf/stand mo
KEF 103/4MS	1199	3x Pt	91	4	200	22,90,31	Uni Q, shielded, coupled cavit
KEF 103/4S	1249	3x CC	91	4	200	22,90,31	'Audiophile' 103/4MS
KEF 104/2	1595	3x	92	4	250	28,90,41	Floor standing, coupled cavity
KEF 105/3	2295	4x Pt	93	4	300	28,111,41	Uni Q, coupled cavity bass
KEF 105/3S	2345	4x Pt	93	4	300	28,111,41	Uni Q, audiophile 105/3
KEF 107/2	3695	3x	92	4	350	33,117,45	Floor standing, Kube equaliser
Kenwood LS-770G	260	Pt	88	4	110	27,48,26	European design
Kenwood LS-300G	300	Pt	82	8	60	21,35,30	European design
Kenwood LS-880G	360	Pt	86	4	160	28,51,26	Titanium tweeter
Kenwood LS-500G	500	Pt	87	4	100	22,44,28	European design
Kenwood LS-700G	1200	Pt	87	4	120	30,90,30	European design
Kenwood LS-1000G	1700	Pt	87	4	160	34,110,38	European design
Keswick Audio Aria	269	2x	88	8	70	21,42,27	Bookshelf
Keswick Audio Volante	499	-	90	8	85	21,85,27	Floor standing
Keswick Audio Figaro	799	-	86	8	125	19,28,27	Features solid timbers

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.



Key to loudspeakers
Price - typical retail, to nearest pound.
Type - 2x, 3x etc - number of independent drive units, Pt - ported, IB - sealed, Active - dedicated active crossover, needs amps for each driver, ABR - auxiliary bass radiator, Sub - subwoofer, Uni-Q - KEF prop. coaxial drive unit, Horn - horn loading, MC - moving coil, ESL - electrostatic, CC - coupled cavity, Hybrid - dynamic bass/ESL or ribbon top.
Sens - output at given power input level.
Impedance - in ohms. Power - maximum recommended amplifier output.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS							
Keswick Audio Alto	999	Sub	87	8	150	19,70,27	To match Figaro
Koss SA10	19	Active	-	-	-	-	High imp
Koss SA30	36	Active	-	-	-	-	High impedence
Linaeum LFX Wood	649	Hybrid	90	-	-	16,22,18	Modified ribbon/dynamic
Linaeum LSII	991	Hybrid	90	-	-	30,150,38	Modified ribbon/dynamic
Linaeum LFX Corian	1399	Hybrid	90	-	-	16,22,18	Modified ribbon/dynamic
Linn Index	259	2x IB	87	8	-	21,44,24	30 watts minimum
Linn Tukan	398	2xIB	87	8	30	19,30,18	Multipurpose
Linn Kelidh Passive	595	2x IB	87	4	60	20,83,28	Floor standing, 60w min
Linn Keilidh Aktiv	1090	2x IB	-	-	-	20,83,28	Floor standing, boundary
Linn Kaber Passive	1298	3x IB	87	4	60	20,90,28	Integral stands, 60w minimum
Linn Kaber Aktiv	1995	3x IB	-	-	-	20,90,28	Integral stands, boundary
Linn Keltik Aktiv	4400	3x IB	-	-	-	26,104,37	Integral stands, boundary
Living Voice Tone Scout	5000	-	99	8	100	64,110,70	Floorstanding, three-way
Living Voice Air Partner	11990	-	99	8	100	64,160,90	Floorstanding, Vitavox drivers
Lowther Fidelio	1299	Horn	96	8	100	29,100,43	
Lowther Academy	1499	Horn	98	4	100	29,100,43	16ohm option
Lowther Bel Canto	1899	Horn	97	8	100	28,132,44	Including adjustable stand
Lowther Delphic	2195	Horn	98	4	100	28,137,44	With adjustable stand, 16ohm o
Lumley Reference LM4	375	2x	86	6	120	18,36,22	Stand mount
Lumley Reference LM5	499	2x	88	6	150	25,46,21	Stand mount
Lumley Reference LM6	650	2x	88	6	150	25,81,21	Floor standing
Lumley Reference LM3	895	3x	90	8	120	27,87,28	Floor standing
Lumley Reference LM2	2300	4x	88	8	200	33,110,29	Open baffle
Lumley Reference LM1	8500	5x	89	4	500	71,122,40	2 box, open baffle
MAG Audio Audio A90	3600	Ribbon	80	3.7	300	52,150,8	Two-way full range ribbon
Magnepan SMGa	688	-	90	8	150	-	
Manticore Minaret	450	IB	94	8	100	23,15,11	Nearfield monitor
Manticore Minaret F1	750	IB	94	8	100	23,15,11	Nearfield monitor
Manticore Matisse	1300	-	90	8	200	100,28,22	Fibrelam cabinets
Martin-Logan Statement	POA	Hybrid	87	-	-	23,140,10	ESL/dynamic, biwire,
Martin-Logan Aerius	2222	Hybrid	89	-	-	23,122,30	Two-way
Martin-Logan Stylos	2495	Hybrid	2x	88		23,35,28	In wall
Martin-Logan Sequel II	3222	Hybrid	89	-	-	31,160,29	Dynamic bass/electrostatic, tw
Martin-Logan CLS IIz	4333	ESL	86	-	-	62,127,32	Full range panel
Martin-Logan Quest	4991	Hybrid	90	-	-	42,160,29	Dynamic bass/electrostatic, tw
M-L Monolith IIP	8730	Hybrid	89	-	-	59,163,28	ESL/dynamic, two-way
M-L Monolith IIIX	9354	Hybrid	89	-	-	59,163,26	ESL/dynamic, active crossover
Metaxas Empress	3850	ESL	88	8	100	50,150,8	Full range single panel ESL
Metaxas Czar	8250	ESL	94	8	100	70,230,8	Full range 3-panel ESL
Metaxas Emperor	19500	ESL	99	8	250	100,230,8	Full range, multi-panel ESL
Mission 760i	130	2x Pt	89	6	75	18,30,20	Stand mount, boundary siting
Mission 760i SE	150	2x Pt	89	6	75	18,30,20	Stand mount, boundary siting
Mission 780	200	2x pt	89	6	75	18,30,26	Stand mount, near wall siting
Mission 762i	250	2x Pt	92	8	125	25,50,29	Stand mount, boundary siting
Mission 751	300	2x Pt	89	6	75	19,32,27	Stand mount, inverted
Mission 763i	380	2x Pt	92	8	125	25,80,29	Floor standing, near wall siti
Mission 752	500	2x Pt	90	8	125	20,84,26	Floor stand, near wall siting
Mission 765i	680	2x Pt	93	4	200	25,100,34	Floor stand, free space
Mission 753	700	2x Pt	90	6	150	21,88,32	Floor stand, transverse folded
Modulus Subwoofer	1750	Active	-	-	250	49,45,45	Variable phase, high/low filte
MA Monitor 1 Gold	190	2x IB	88	8	70	16,24,16	Miniature stand/shelf mount
Monitor Audio MA201	250	2xPt	90	8	100	22,41,27	Gold dome tweeter, pulp bass
MA Monitor 7 Gold II	250	2x Pt	89	8	70	17,35,17	Stand/shelf mount
Monitor Audio MA100G	270	2x IB	89	8	120	16,24,16	As MA Monitor 1, shielded
MA Monitor 9 Gold II	290	2x Pt	88	8	100	21,37,21	Stand/shelf mount
Monitor Audio MA202	400	2xPt	90	8	100	22,89,29	Gold dome tweeter, pulp bass
MA Monitor 14 Gold II	470	3x	88	8	120	21,76,24	Floor/shelf standing
MA MA700 Gold II	500	2x	89	8	100	22,35,26	Stand/shelf mount
Monitor Audio Studio 6	800	2x Pt	88	8	200	22,35,25	Stand/shelf mount, metal bass
MA MA1200 Gold II	1200	2x	89	8	200	20,92,26	Floor standing MA700 GII
MA Studio 20SE	2000	2x Pt	88	8	200	20,92,26	Floor stand, metal cone bass
Monitor Audio Studio 50	4000	2x	90	8	300	20,104,30	Floor stand, metal bass & mid
Mordaunt-Short CS1	115	Pt	87	8	100	16,24,14	Shielded, Positec protected
Mordaunt-Short MS10	130	Pt	88	8	60	19,31,22	Alloy tweeter, MCS woofer
Mordaunt-Short SW1	150	Sub	90	8	100	24,58,26	Coupled cavity, matches CS1
Mordaunt-Short MS20	180	Pt	89	8	75	22,37,22	Alloy tweeter, MCS woofer
Mordaunt-Short MS30	250	Pt	90	8	100	25,43,28	Alloy tweeter, MCS woofer
Mordaunt-Short HT30	300	Pt	90	8	120	25,43,29	Shielded, Positec protected
Mordaunt-Short MS40	380	Pt	90	8	150	23,82,28	Alloy tweeter, MCS woofer
Mordaunt-Short MS50	500	Pt	90	8	200	25,87,33	Alloy tweeter, MCS woofer
Mordaunt-Short HT50	550	Pt	90	8	120	25,87,33	Positec, integrated subwoofer
NAD 800	149	Pt	90	6	60	20,32,24	10 litre enclosure
NAD 802	219	Pt	90	6	80	20,40,26	11.5 litre enclosure
Naim IBL Active	776	-	-	-	65	25,80,28	Boundary, floor standing
Naim IBL Passive	895	-	86	6	65	25,80,28	Boundary, floor standing
Naim SBL Active	1586	-	-	-	75	27,89,27	Boundary, floor standing
Naim SBL Passive	1708	-	88	6	75	27,89,27	Boundary, floor standing
Naim DBL Active	6991	-	-	-	200	65,120,40	Boundary, floor standing
Naim DBL Passive	7672	-	92	4	200	65,120,40	Boundary, floor standing
Neat Petite	595	2x	87	6	100	20,30,18	
Orelle Orator II	699	-	91	8	100	27,40,30	Time aligned, biwire
Origin Live OLAV	289	-	88	8	100	20,30,19	
Origin Live OL2B	349	-	88	8	100	19,80,19	Floor standing
Origin Live OL-1A	399	-	86	8	150	20,30,19	

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.



Key to loudspeakers
Price - typical retail, to nearest pound.
Type - 2x, 3x etc - number of independent drive units, Pt - ported, IB - sealed, Active - dedicated active crossover, needs amps for each driver, ABR - auxiliary bass radiator, Sub - subwoofer, Uni-Q - KEF prop. coaxial drive unit, Horn - horn loading, MC - moving coil, ESL - electrostatic, CC - coupled cavity, Hybrid - dynamic bass/ESL or ribbon top.
Sens - output at given power input level.
Impedance - in ohms. Power - maximum recommended amplifier output.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS							
Origin Live OL-2A	469	-	86	8	150	19,80,19	Floor standing
Origin Live OL-1	499	-	86	4	150	20,30,19	
Origin Live OL-2	649	-	86	8	150	19,80,19	Floor standing
Origin Live OL3	975	3x	88	8	150	19,83,23	Floor standing
Origin Live Conqueror	1600	3x	89	8	150	23,87,23	Floor standing
Pentachord Pentode	0	IB	87	8	80	20,74,20	Active crossover, including el
Pentachord P'column	0	IB	87	4	80	21,108,20	Including active crossover, fo
Pentachord B	0	IB	87	8	80	52,35,52	Active crossover, including el
Pentachord A	0	2x IB	87	8	80	21,28,20	Direct coupled
Philips Legend FB720	200	Pt	80	7	75	21,37,31	
Philips DSS930	1300	Active	-	75	-	22,58,33	Active digital loudspeaker
Pioneer CS301	120	3x Pt	90	8	120	27,54,24	Bookshelf
Pioneer CS501	170	3x Pt	90	8	140	31,53,25	Bookshelf
Pioneer CS701	230	3x Pt	90	8	190	35,70,28	Bookshelf
Pioneer S4UK	250	2x Pt	88	6	80	21,37,28	No crossover, UK optimised
Pioneer S60	270	2x	87	4	80	22,47,28	Bookshelf
Pioneer CS901	280	3x Pt	92	8	220	39,75,29	Bookshelf
Pioneer S80	370	2x	88	4	80	23,56,28	Bookshelf
Pioneer S200	600	2x	89	4	120	26,90,34	Biwire, floor standing
Pioneer S400	950	2x	89	4	160	27,96,38	Biwire, floor standing
Polk S4	200	2x Pt	91	8	100	24,39,18	Stand mount, free standing
Polk M3	200	2x Pt	89	8	100	17,29,21	Multi-app, including wall brac
Polk S6	300	2x ABR	91	8	125	26,54,20	Stand mount
Polk S8	450	2x ABR	90	8	150	29,64,22	Stand mount
Polk S10	600	2x ABR	91	8	200	32,74,26	Floorstanding
Polk LS50	800	2x Pt	89	8	250	27,83,29	Floorstanding
Polk LS70	1200	2x Pt	90	8	250	31,94,37	Floorstanding, biampable
Polk LS90	1700	3x Pt	90	8	250	31,94,37	Floorstanding, biampable
Posselt Alpha I	950	Pt	89	8	60	24,44,28	
Posselt Alpha II	1200	Pt	89	8	90	23,100,27	
Posselt Alpha III	1350	Pt	89	8	100	26,102,30	
Posselt Alpha IV	1500	Pt	89	8	135	27,104,31	
Posselt Albatros	2200	Hrn	93	6	200	31,186,32	Ultra sensitive
Proac Tablet 3	479	-	87	8	100	17,28,23	
Proac Studio 100	699	-	88	8	150	20,40,25	
Proac Response 1 S	919	-	87	8	100	17,30,24	
Proac Response 2	1634	-	88	8	150	23,45,281	
Proac Response 3	3065	-	90	8	300	28,118,30	
Proac Response 3 Sig	4935	-	90	8	300	28,118,30	
Prof Monitor Co TB1	481	2x Pt	90	8	150	20,40,25	Shielded version available
Prof Monitor Co LB1	998	2x	89	4	300	18,53,25	Transmission line
Prof Monitor Co AB1	1598	2x	89	6	400	26,79,43	Transmission line
Prof Monitor Co MB1P	4681	2x	91	8	500	38,87,53	Transmission line
Prof Monitor Co BB5P	6754	2x	91	4	600	43,104,79	Transmission line
Quad ESL-63	2860	ELS	86	8	100	66,93,27	Panel, simulates point source
RCF Mytho1	595	-	88	8	150	28,16,24	
RCF Mytho 2	795	-	90	8	200	38,22,31	
RCF Mytho 5	1295	-	85	8	200	84,16,27	
RCF Mytho 3	1395	-	89	8	250	95,22,31	
RCF Mytho 5	1725	-	89	8	300	95,28,34	
Realistic Minimus 3.5	30	-	-	8	15	9,15,5	
Realistic Minimus 21	30	-	-	8	10	15,24,13	
Realistic M'mus 26	56	-	87	8	40	18,28,11	
Realistic Minimus Pro-7	60	2xPt	87	8	50	11,18,11	Revised design
Realistic Minimus Pro-77	100	2xPt	86	8	55	14,22,11	Revised design
Rega Kyte	198	2x	-	8	-	19,31,19	Stand/wall/shelf mount
Rega EL8	298	2x	-	8	-	17,72,20	Floor stand
Rega ELA	450	2x	-	8	-	30,80,20	Floor stand
Rega XEL	1040	2x	-	6	-	20,82,30	Floor stand
Rehdeko RK115	1200	Pt	104	8	-	34,42,28	
Rehdeko RK125	2300	Pt	102	8	-	34,61,28	
Rehdeko RK145	3400	Pt	102	8	-	39,66,29	
Rehdeko RK175	6500	Pt	106	8	-	50,96,37	
REL Strata	499	Sub	-	-	1kw	42,52,31	Active, internal amp
REL Stadium	795	Sub	-	-	1kw	58,52,36	Active, internal amp
REL Stentor	1495	Sub	-	-	1kw	59,56,37	Active, internal amp
REL Studio	2995	Sub	-	-	1kw	69,62,52	Active, internal amp
Richard Allen Min 2	129	-	86	8	100	16,30,20	
Richard Allen Minette Gold	149	-	86	8	100	16,30,20	
Rogers LS2A/2	229	-	87	8	100	23,36,21	Use about 30cm from wall
Rogers LS6A/2	399	-	89	8	150	27,51,28	Stand mount, free space
Rogers Studio 3	449	-	85	8	45	19,30,16	
Rogers LS8/A	499	-	90	8	150	26,86,25	
Rogers P20	750	2x Pt	88	8	150	26,42,30	Stand mount, stands available
Rogers Studio 7	880	-	89	8	150	30,63,30	
Rogers P22	1100	2x Pt	88	8	150	26,85,30	Floor stand, sloping baffle
Rogers LS5/9	1531	-	87	8	100	28,46,27	
Rogers P24a	1800	-	86	4	250	25,104,35	Internal bass, floor standing
Roksan Ojan 3	895	Pt	90	8	250	28,76,460	Floor standing, sprung tweeter
Royd A711	115	-	89	8	60	20,31,18	Bookshelf or near wall siting
Royd A7 Series II	115	Pt	89	8	60	31,20,18	Near wall siting
Royd Topaz	173	Pt	89	8	100	31,20,18	Near wall siting
Royd Sapphire II	245	Pt	89	8	100	31,20,18	Biwire, near wall siting
Royd The Minstrel	259	Pt	86	8	100	69,18,12	Side port,. floor standing
Royd Sintra II	375	Pt	89	8	100	31,20,18	Biwire, near wall siting

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Allison AL110	220	N/A	90	4	150	24,40,23	Floor standing, free space



Key to loudspeakers
Price - typical retail, to nearest pound.
Type - 2x, 3x etc - number of independent drive units, Pt - ported, IB - sealed, Active - dedicated active crossover, needs amps for each driver, ABR - auxiliary bass radiator, Sub - subwoofer, Uni-Q - KEF prop. coaxial drive unit, Horn - horn loading, MC - moving coil, ESL - electrostatic, CC - coupled cavity, Hybrid - dynamic bass/ESL or ribbon top.
Sens - output at given power input level.
Impedance - in ohms. Power - maximum recommended amplifier output.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS							
Royd The Sorcerer	595	Pt	86	8	120	31,20,18	Front port, near field monitor
Royd The Abbot	665	Pt	90	8	120	81,20,30	Floor standing, free space
Royd The Prior	978	Pt	90	8	150	96,37,26	Floor standing, free space
Ruark Swordsman II	299	2x IB,	87	8	100	20,38,27	Bookshelf or stand mount
Ruark Sabre II	385	2x IB	87	8	100	23,37,27	Bookshelf or stand mount
Ruark Templar	479	2x IB	87	8	100	19,70,27	Floor standing
Ruark Talisman II	699	2x Pt	88	8	100	23,84,32	Floor standing
Ruark Broadsword II	849	2x IB	86	8	120	29,43,38	Stand mount
Ruark Crusader II	1495	3x Pt	88	6	150	24,92,32	Floor standing
Ruark Equinox	1749	2x Pt	88	6	150	25,88,34	Including stand and external c
Ruark Accolade	2549	3x Pt	89	8	200	29,100,38	Floor standing
Sansui SP-X111K	125	-	89	6	50	18,30,20	
SD Acoustics SD3	399	Pt	87	8	100	20,38,30	Free standing
SD Acoustics SD5	1235	3x Pt	88	8	200	20,110,30	Ribbon tweeter
SD Acoustics SD1	1650	IB	88	8	250	30,125,30	Open mid, ribbon tweeter
Shahinian Obelisk	2290	3x	-	6	200	37,74,32	1st Shaninian model, floor sta
Shahinian Hawk	4950	Mono sub	-	6	250	37,95,28	Passive
Shahinian Diapason	7950	5x	91	6	300	58,100,38	Omni-directional, floor standi
Sonus-Faber Minuetto	898	2x	88	-	-	23,35,28	Compact, stand mount
Sonus-Faber Amator	1498	2x	88	-	-	20,34,31	Compact, stand mount
Sonus-Faber Electa	1690	2x	88	-	-	38,27,24	Compact, stand mount
Sonus-Faber Amator	2898	2x	88	-	-	37,22,35	Compact, stand mount
Sonus-Faber Guarneri	5500	2x	88	-	-	19,38,38	Compact, limited edition
Sonus-Faber Extrema	5991	2x	88	-	-	55,27,46	'Reference Standard'
Sony SS-E300	50	IB	-	-	-	-	Magnetically shielded
Sony SS-V77	50	-	90	16	-	19,9,14	Full range surround speakers
Sony SS-E500	80	IB	-	-	-	-	Magnetically shielded
Sony SS-J90AV	100	-	-	167	-	19,12,15	Shielded centre speaker
Sony SS85E	100	IB	85	4	70	9,32,24	UK optimised sound
Sony SS125E	120	IB	86	4	90	22,38,38	UK optimised sound
Sony SA-W90	350	-	-	-	70	22,49,51	Active subwoofer
Sony SSA1L	450	IB	85	4	120	19,30,32	Bio-cellulox tweeters
Sound-Lab Dynastat	3790	Hybrid	88	8	350	44,183,41	Oak or walnut finish £3990
Sound-Lab Pristine II	6990	ESL	88	8	300	72,153,69	Steel frame, black
Sound-Lab A3	11990	ESL	88	8	300	79,61,23	Any finish
Sound-Lab A1	13990	ESL	88	8	400	91,208,27	Curved panel, any finish
Spendor LS3/5A	539	3x	83	8	40	19,30,16	BBC inspired location monitor
Spendor S20	579	-	84	8	70	22,38,26	On stands, free space
Spendor SP2/3	769	-	88	8	80	28,55,33	On stands, free space
Spendor SP1/2	999	-	89	8	90	30,63,30	
Spendor S100	1599	2x	89	8	100	37,70,43	
Spica TC50	649	IB	86	4	50	33,39,29	Free space, on stands
Spica TC50SE	849	IB	86	4	50	33,39,29	Free space, on stands
Spica TC50SEX	949	IB	86	4	50	33.39.29	Free space, on stands
Spica Angelus	1295	IB	87	8	200	53,117,26	Free space, floor standing
Tannoy 603II	139	-	86	4	70	23,34,16	Free space, floor stand
Tannoy 605II	169	-	87	6	90	28,40,19	Gold anodised tweeter
Tannoy 607II	219	-	88	6	100	32,50,23	Gold anodised tweeter
Tannoy 609II	294	-	89	5	120	33,50,23	Dual concentric
Tannoy 611II	429	-	91	4	150	33,70,23	Dual concentric
Tannoy 613II	600	-	90	4	150	28,90,19	Dual concentric
Tannoy 615II	750	-	92	4	175	33,98,23	Dual concentric
TDL Near Field Mon	120	-	88	8	70	18,30,17	
TDL RTL1	200	-	87	8	80	20,39,22	
TDL RTL2	300	-	87	8	80	20,73,22	
TDL RTL3	400	-	90	8	120	20,90,37	
TDL Studio 0.75	499	-	85	8	100	20,67,30	
TDL Studio 0.5	499	-	85	8	75	20,62,30	
TDL Studio 1	699	2x	86	8	120	23,77,33	Transmission line bass
TDL Studio	699	-	86	8	100	23,76,33	
TDL Studio 3	999	-	87	8	250	30,98,41	
TDL Studio 4	1499	-	87	8	300	27,112,44	
TDL Reference Monitor	1999	-	87	8	350	30,119,47	Floor standing
Teac LSX8	80	-	-	8	30	11,18,11	
Teac SW1	120	Sub	-	6	100	17,44,30	Coaxial, shielded
Teac S300	150	2x Pt	-	6	100	17,24,17	
Technics SB-CS55	80	2x Pt	-	8	60	25,43,25	Shelf/stand, shielded
Technics SB-CS75	100	3x Pt	-	8	60	27,49,25	Composite mica cone mid
Technics SB-CS95	150	3x Pt	-	8	100	29,54,25	Composite mica cone mid
Technics SB-EX2	180	2x Pt	-	4	100	24,48,29	Composite mica cone mid
Technics SB-EX3	250	3x Pt	-	4	125	24,60,29	Mica diaphragms, separate LF b
Technics SB-EX7	450	3x Pt	-	4	180	29,85,32	Mica diaphragms, separate LF b
Technics SB-MX100D	2000	2x Pt	-	6	100	23,47,34	Floor standing, separate LF ba
Technics SB-MX200D	4000	3x Pt	88	4	125	35,91,43	Mica bass/tweeter
Totem Model One	995	Pt	87	4	120	17,31,23	
Triangle Titus E	265	-	90	8	75	20,25,32	
Triangle Comete E	399	-	91	8	100	22,28,40	Suits low powered valve amps
Triangle Scalene E	625	-	91	8	150	84,22,22	Suits for low power valve amp
Triangle Norma	775	-	93	8	150	26,84,25	Suits low power valve amp
Triangle Alcante	999	-	92	4	200	22,100,22	Suits low power valve amp
Triangle Icare	1350	-	92	8	250	99,22,28	
Triangle Calisto	1850	-	90	8	300	104,22,22	
Triangle Altair	2450	-	92	8	300	35,120,30	Proprietary tweeter
Triangle Octant	3550	-	94	8	300	42,150,19	Ultra high sensitivity
UKD Operetta	595	Pt	88	8	70	22,30,26	Solid mahogany, stand mount

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Allison AL110	220	N/A	90	4	150	24,40,23	Floor standing, free space



Key to recievers
Price - typical retail, to nearest pound.
A/V - minimum requirements - Dolby Surround/Pro-Logic circuitry.
Power - watts/channel, both channels driven RMS 8ohms, 20Hz - 20kHz.
Wavebands - FM, L - long wave, M - medium wave.
Presets - number thereof.
In/outputs - MM/MC - moving coil/moving magnet, L - line, T - tape, V - audio input or tape circuit with video signal routing.
Remote - control.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Sens	Impedance	Power	Size	Special
LOUDSPEAKERS							
UKD Callas	750	Pt	88	8	120	34,22,32	Solid mahogany, stand mount
UKD Super Pavarotti	875	Pt	88	8	150	23,55,23	Solid mahogany, stand mount
UKD Caruso	1850	Pt	88	8	200	22,97,28	Solid walnut, floor standing
Vandersteen 2Ce	1395	4x	88	7	160	41,101,27	Free standing, phase aligned
Visonic David 5001	132	-	-	4-8	50	10,17,10	
Visonic Sub 4	154	-	-	4-8	100	36,49,31	
Visonic David 6001	163	-	-	4-8	60	13,20,12	
Visonic David 8001	228	-	-	4-8	80	16,25,17	
Wharfedale Centre Cube	45	Pt	87	8	75	14,13,12	Shielded centre speaker
Wharfedale Modus Cube	69	Pt	87	8	75	14,17,12	Shielded
Wharfedale CRS3	89	2x Pt	89	8	100	22,38,17	Stand/boohshelf mount
Wharfedale D30.2	99	Pt	89	8	100	22,38,17	Stand/bookshelf mount
Wharfedale Modus Centre	99	Pt	87	8	75	46,14,12	Shielded centre speaker
Wharfedale Modus Micro	99	2x Pt	86	8	75	14,23,12	Shielded
Wharfedale Diamond V	129	Pt	87	8	100	18,26,20	Stand mount, near wall
Wharfedale CRS5	129	2x Pt	89	8	140	26,48,20	
Wharfedale Modus Mini	129	ABR	86	8	75	14,39,12	Shielded two-way
Wharfedale Modus Sub-bass	139	Pt	88	8	200	57,23,26	Two channel double tuned sub-w
Wharfedale 415	149	IB	87	8	100	24,35,20	
Wharfedale CRS7	199	Pt	91	8	150	26,60,21	
Wharfedale 425	199	IB	88	8	100	26,40,25	
Wharfedale 535	249	IB	90	8	120	27,48,29	
Wharfedale CRS9	299	Pt	93	8	160	31,80,28	Floor standing, three way
Wilson X1 Grand Slam	0	3x	94	-	-	-	Three-way reference
Wilson Puppy II	5500	Sub	91	-	-	25,53,35	Passive subwoofer for WATT
Wilson WATT III	7645	2x	91	-	-	27,31,36	
Wilson WHOW II	12500	Sub	98	-	-	88/65,36	Active subwoofer for WATT
Yamaha NS-C80	99	-	90	6	80	14,45,17	
Yamaha NS-E80	120	-	90	6	50	27,20,7	
Yamaha NS-C110	149	-	90	6	120	15,47,18	
Yamaha NS10M	250	-	90	8	100	21,38,20	
ZYP AI	199	IB	88	8	50	14,22,12	Wall mount
ZYP A1T	219	IB	88	8	50	14,22,12	Magnetically shielded
ZYP A2S	299	IB	88	8	50	22,14,12	Studio nearfield monitor

Model	Price	A/V	Power	Wavebands	Presets	In/outputs	Remote	Size	Special
RECEIVERS									
B&O Beomaster 7000	835	N	75	FM,M,L	20	MM,2L,2T	Y	-	
Denon DRA-345R	250	N	45	FM,M	24	MM,3L,1T	Y	44,12,32	System remote
Denon DRA-545RD	320	N	60	FM,M	24	MM,3L,2T	Y	44,12,32	RDS
Denon AVR-1000	520	Y	70	FM,M	16	MM,2L,2T	Y	44,15,33	Auto input balance
Dual CR9000RS	200	N	55	FM,M,L	30	MM,4L,2T	Y	44	
Grundig R210	170	N	50	FM,M,L	59	MM,5L	Y	36,12,30	Gain switch, remote
Grundig R2	250	N	50	FM,M,L	59	MM,5L	Y	44,14,30	RDS, Radio text, remote
Harman-Kardon HK3300	379	N	20	FM,M	-	MM,3L,2T	Y	45,13,35	
Harman-Kardon HK3400	499	N	35	FM,M	-	MM3L,2T	Y	45,13,35	
Harman-Kardon HK3500	699	N	50	FM,M	-	MM,4L,2T	Y	45,13,35	
Harman-Kardon HK3600	799	N	75	FM,M	-	MM,4L,2T	Y	45,13,35	
Harman-Kardon AVR-30	999	Y	50	FM,M	16	MM,3L,3T,6V	Y	45,13,35	Dolby Pro Logic
JVC RV212BX	200	N	40	FM,M,L	40	MM/MC,4L,3T	-	44,13,34	
JVC RX-212XBK	200	N	50	FM,M,L	40	MM,3L,1T	Y	44,13,34	4ch surround
JVC RX-308BK	250	N	50	FM,M,L	40	MM,3L,1T	Y	44,13,34	4 channel surround
JVC RX-508VBK	350	Y	50	FM,M,L	40	MM,1L,3T	Y	44,13,34	5ch Dolby Pro Logic
JVC RX-808VBK	600	Y	70	FM,M,L	40	MM,1L,3T	Y	44,16,40	5ch Dolby Pro Logic
JVC RX-1010VTN	920	y	120	FM,M	-	MM/MC,4L,3T	Y	44,13,34	Dolby Pro Logic
Kenwood KR-A4060	230	N	80	FM,M	20	MM,3L,2T	Y	44,13,33	RDS
Kenwood KR-V6060	350	Y	100	FM,M	20	MM,3L,2T	Y	44,15,40	RDS
Kenwood KR-V7050	400	Y	100	FM,M	20	MM,3L,2T	Y	44,15,40	RDS
Marantz SR-53	270	N	50	FM,M,L	30	MM,3L,1T	Y	43,14,34	
Marantz SR-63	330	N	80	FM,M,L	30	MM,3L,1T	Y	43,14,34	
Marantz SR-73	550	Y	75	FM,M	30	MM,3L,3T	Y	43,15,38	Dolby Pro Logic
Marantz SR-82	850	Y	75	FM,M	30	MM,3L,2T	Y	43,17,43	Dolby Pro Logic, multi-room
NAD 701	259	N	25	FM,M	24	MM,2L,1T	Y	-	
NAD 705	329	N	40	FM,M	39	MM,2L,2T	Y	-	
Philips FR940	450	Y	100	FM,M,L	30	MM,4L,4T	Y	44,14,30	Dolby Pro Logic
Pioneer SX-102	220	N	55	FM,M	30	MM,2L,2T	N	42,14,29	
Pioneer SX-202R	240	N	45	FM,M	30	MM,2L,2T	Y	42,14,29	
Pioneer SX-302	300	N	45	FM,M	30	MM,2L,2T	Y	42,13,34	
Sansui RZ790	250	N	30	FM,M	30	MM,2L,2T	Y	-	
Sansui RZ-3500 II	370	N	30	FM,M	30	MM,2L,2T	Y	-	
Sherwood RX1010	120	N	30	FM,M	-	MM,2L,1T	N	-	
Sherwood RX2010	140	N	50	FM,M	-	MM,3L,1T	N	-	
Sherwood RX4010R	180	N	60	FM,M	-	MM,3L,1T	N	-	
Sherwood RV5030R	330	Y	80	FM,M,L	-	MM,4L,4T	Y	-	Dolby Pro Logic
Sherwood RV6010R	350	Y	100	FM,M,L	-	MM,4L,4T	Y	-	Dolby Pro Logic
Sherwood RV6030R	400	Y	100	FM,M,L	-	MM,4L,4T	Y	-	
Sony STRD311	230	Y	60	FM,M,L	30	MM,2L,2T	Y	43,14,30	System remote
Sony STRD511	280	Y	50	FM,M,L	30	MM,3L,2T	Y	43,14,30	Dolby Pro Logic
Sony STRD611	330	Y	60	FM,M,L	30	MM,3L,2T	Y	43,14,30	Dolby Pro Logic
Teac AG-V3020	450	Y	95	FM,M	30	MM,4L,3T	Y	44,16,38	Dolby Pro Logic
Technics SA-GX130DL	230	N	60	FM,M,L	30	MM,2L,2	Y	43,13,31	
Technics SA-GX230DL	270	Y	80	FM,M,L	30	MM,2L,2T	Y	43,13,31	Non-Dolby

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Allison AL110	220	N/A	90	4	150	24,40,23	Floor standing, free space



Key to systems
Price - typical retail, to nearest pound.
Sources - CD - compact disc, R - radio tuner, Tu - turntable, T - cassette tape,
V - video signal routing (composite and/or S-Video).
Power - output power in watts, per channel, RMS.

Size - main unit dimensions - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	A/V	Power	Wavebands	Presets	In/outputs	Remote	Size	Special
RECEIVERS									
Technics SA-GX350L	330	Y	80	FM,M,L	30	MM,4L,1T	Y	43,14,36	Dolby Pro Logic
Technics SA-GX550L	450	Y	100	FM,M,L	30	MM,3L,1T	Y	43,16,36	Dolby Pro-Logic
Yamaha RX-360	240	N	40	FM,M	-	MM,3L,1T	Y	-	
Yamaha RX-V470	400	Y	50	FM,M	-	MM,6L,2T	Y	-	Dolby Pro Logic

Model	Price	Source	Power	Size	Special
SYSTEMS					
Aiwa NSX-270	280	CD,R,2T	20	-	Mini, remote
Aiwa NSX-400	300	CD,R	25	-	Mini, single box
Aiwa NSX-340	300	CD,R,2T	25	-	Mini, 3-CD player
Aiwa LCX-7	300	CD,R,T	15	14,24,26	Micro
Aiwa NSX-430	330	CD,R,2T	40	-	Mini, inc front surround spkrs
Aiwa NSX-520	350	CD,R,2T	40	-	Mini, 3-CD player
Aiwa NSX-450G	350	CD,R,T	25	-	Mini, CD Graphics
Aiwa LCX-9	350	CD,R,T	10	14,24,26	Micro, with powered subwoofer
Aiwa Z-650	370	CD,R,Tu,2T	20	-	Midi
Aiwa NSX-540	400	CD,R,2T	55	-	Mini, front surround spkrs
Aiwa Z-720	400	CD,R,Tu,2T	30	36.48,35	Midi, equaliser
Aiwa LCX-10	400	CD,R,T	8	14,24,26	Micro, as LCX-10 with surround
Aiwa NSX-550G	430	CD,R,2T	40	-	Mini, CD Graphics
Aiwa NSX-510G	440	CD,R,2T	30	26,31,34	Mini, karaoke, CD-G compatible
Aiwa NSX-D737	500	CD,R,2T	50	-	Mini, 4-mode DSP
Aiwa Z-D300M	600	CD,R,Tu,2T	40	36,54,35	Midi, three CD, equaliser
Aiwa Z-D5000M	670	CD,R,Tu,2T	40	36,54,35	Midi, three CD, DSP, equaliser
Aiwa NSX-D939	750	CD,R,2T	50	-	Dolby Pro Logic, incl speakers
Aiwa Z-D7000M	800	CD,R,Tu,2T	65	36,63,35	Midi, DSP, Dolby Surround
Akai MX115	399	CD,R,2T	35	27,39,26	Graphic equaliser
Akai RX590	449	CD,R,2T,P	38	27,31,33	3x CD player, Dolby B
Akai MX115T	449	CD,R,P,2T	35	27,48,31	As MX115, with mini turntable
Akai RX590T	499	CD,R,2T,P	38	27,40,33	As RX590, with mini turntable
Akai RX690	549	CD,R,2T	50	27,40,33	3x CD player, Dolby B&C
Akai RX690T	599	CD,R,2T,P	50	27,49,33	As RX690 with mini turntable
Akai RX890	799	CD,R,2T	60	27,42,33	Virtual Room Simulator, RDS
Akai RX890T	849	CD,R,2T,P	60	27,51,33	As RX690, with mini turntable
Akai RX890 Compo	999	CD,R,2T,P	60	64,78,35	RX890 with stand & AP A950
Amstrad Micro 1000	170	CD,R,T	-	15,20,13	10 presets, FM, MW, LW
Amstrad Mini 2000	200	CD,R,T	-	28,21,57	Five band equaliser
Amstrad CD3-500	230	CD,R,2T	5	-	Three disc CD player, FM, MW
Amstrad Micro 2000	250	CD,R,T	-	17,28,23	10 presets, FM, MW, LW
Amstrad Mini 3000	280	CD,R,2T	-	26,32,49	RDS tuner, mic mixing
Amstrad Mini 5000	300	CD,R,2T	-	26,32,25	Three disc CD, mic mixing
Arcam Alpha 5	1200	CD,R	40	43,23,30	Based on Arcam separates
Arcam Alpha 6	1300	CD,R	50	43,23,30	Including Alpha 6 R/C amp
Arcam Delta	2810	CD,R,T,D	75	43,37,34	Fully remote controllable
B&O Beosystem 7000	245	CD,R,Tu,T	100	42,8,33	Components, speakers extra
B&O BeoSound Century	995	CD,R,T	-	75,37,17	Wall mounted active speakers
B&O Beocenter	1400	CD,R,T	80	76,11,34	Audio master for extended syst
B&O Beosystem 2500	2150	CD,R,T	-	83,36,16	Active speakers, lifestyle sys
B&O Beosystem 2300	2150	CD,R	-	83,36,16	As 2500, without cassette
Denon D-65/S	640	CD,R,2T	30	27 wide	Includes optional UK speakers
Denon D-90/S	740	CD,R,Tu,T	30	27 wide	RDS, inc optional UK speakers
Denon D-110/S	870	CD,R,Tu,2T	40	27 wide	RDS, inc optional UK speakers
Denon D-250/S	1000	CD,R,Tu,2T	50	27 wide	RDS, inc optional UK speakers
Dual MS3700	600	CD,R,1T	50	-	
Dual MS2500	600	CD,R,2T	35	-	
Goodmans System 700	600	CD,R,2T	50	-	
Grundig MC10	300	CD,R,T	25	18,36,29	Mini, Dolby NR
Grundig M10	330	CD,R,2T	22	27,37,34	Five band graphic & full remot
Grundig M20	430	CD,R,2T	35	25,37,30	Spectrum analyser
Grundig Fine Arts S1	740	CD,R,2T	50	44,45,30	
Grundig Fine Arts S3	760	CD,R,2T	50	44,37,30	Separates system
Grundig Fine Arts S2	880	CD,R,2T	80	44,45,30	Separates system
Grundig Fine Arts S4	1130	CD,R,2T	120	44,45,30	
Grundig Fine Arts S5	1300	CD,R,2T	120	44,41,30	
Hitachi AX10	330	CD,R,2T	20	23,29,-	Inc graphic equaliser
Hitachi AX12	350	CD,R,2T	20	45,34,63	
Hitachi AXC10	380	CD,R,2T	20	23,29,-	Inc graphic equaliser
JVC Adagio S20	370	R,CD,2T	30	25,27,35	Live surround
JVC Midi -W48CD	430	R,CD,2T	30	36,50,34	Live Surround
JVC Adagio S30	430	R,CD,2T	32	25,27,35	Live surround, Karaoke
JVC Adagio C33	450	R,CD,2T,V	30	25,33,34	Live surround. 7CD disc system
JVC Midi-W58CD	500	R,CD,2T	50	36,48,25	Bass compensator
JVC Adagio S50R	500	R,CD,2T	40	25,36,35	Live surround, RDS
JVC Adagio C55	600	R,CD,2T,V	36	24,36,34	Advanced 7CD disc system
JVC Adagio S60R	600	R,CD,2T	45	28,36,35	Panoramic surround, RDS
JVC Midi-W78CD	750	R,CD,2T	60	36,57,29	Two channel surround
JVC Adagio G7	800	R,CD,2T,V	50	28,43,28	Panoramic surround
JVC Adagio G9	1000	R,CD,2T,V	55	28,43,28	Panoramic surround
Kenwood UD-302	400	CD,R,2T	33	27,36,31	3-disc carousel
Kenwood UD-501	600	CD,R,T,2T	32	27,41,31	Presence modes
Kenwood M-47	600	CD,R,Tu,2T	45	36,62,38	
Kenwood M-28MG	600	CD,R,T,2T	30	36,56,38	Five disc CD carousel

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Denon D-110/S	870	CD,R,Tu,2T	40	27 wide	RDS, inc optional UK speakers



Key to systems
Price - typical retail, to nearest pound.
Sources - CD - compact disc, R - radio tuner, Tu - turntable, T - cassette tape,
V - video signal routing (composite and/or S-Video).
Power - output power in watts, per channel, RMS.

Size - main unit dimensions - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Source	Power	Size	Special
SYSTEMS					
Kenwood UD-551	650	CD,R,2T	32	27,41,31	Multi CD
Kenwood UD-701	750	CD,R,V,2T	32	27,41,31	Dolby Surround
Kenwood M-47G	750	CD,R,Tu,2T	45	36,62,38	Graphic equaliser
Kenwood UD-751M	800	CD,R,V,2T	32	27,41,31	Multi CD
Kenwood M-57MG	850	CD,R,Tu,2T	45	36,62,38	Multi-CD, graphic equaliser
Kenwood M-76AG	950	CD,R,V,Tu,2T	60	36,62,38	Dolby Surround
Kenwood UD-901	1000	CD,R,V,2T	42	27,41,31	Dolby Pro Logic
Kenwood M-77MG	1000	CD,R,V,Tu,2T	60	36,62,38	Multi-CD
Kenwood HD-1000	1000	CD,R,T	40	27,40,35	MD & equaliser options
Kenwood M-97G	1250	CD,R,V,Tu,2T	85	36,64,38	Dolby Pro Logic
Kenwood M-97MG	1300	CD,R,V,Tu,2T	85	36,64,38	Multi-CD
Marantz 1010	900	CD,R,2T	45	42,77,31	System Link Operation
Marantz 1020	1000	CD,R,2T	45	42,77,31	Motorised Front Panel
Nakamichi S'space 7	1495	CD,R	40	-	Multi-CD, aux & tape input
Onkyo L-909	1200	MM,3L,2T	70	-	Ciomponent system, 4ohm rated
Panasonic SC-DH30	250	CD,R,2T	5	-	
Panasonic SC-CH11	300	CD,R,2T	20	-	
Panasonic SC-CH33Z	370	CD,R,2T	30	-	
Panasonic SC-CH150	430	CD,R,T,	20	18,25,28	51cm wide, including speakers
Philips FW21	300	CD,R,2T	12	26,30,22	
Philips AS44CD	329	CD,R,2T	20	36,38,29	
Philips AS540CD	379	CD,R,2T	40	36,398,29	
Philips FW41	400	CD,R,2T	30	26,30,25	
Philips AS640CD	429	CD,R,2T	30	36,38,29	Five disc CD
Philips FW370	900	CD,R,DCC	75	36,50,35	DCC midi
Philips FW91	999	CD,R,DCC	60	26,35,26	DCC mini
Philips FD920	999	CD,R,DCC	43	44,50,30	Full size separates
Philips FS380	1000	CD,R,DCC	100	44,50.30	DCC midi
Pioneer N-25	299	CD,R,2T	20	-	Double cassette, three-disc CD
Pioneer N-50W	349	CD,R,2T	50	-	One touch Karaoke, smart timer
Pioneer J-200	399	CD,R,2T	11	-	Mic mixing, five band equalise
Pioneer N-70W	399	CD,R,2T	70	-	Double auto-reverse cassette,
Pioneer N-70W/M	449	CD,R,2T	70	-	Multi-play version of N-70W
Pioneer N-100W	499	CD,R,2T	100	-	Double auto-reverse cassette,
Pioneer J-300	549	CD,R,2T	40	-	Single play CD with Smart tume
Pioneer N-100W/M	549	CD,R,2T	100	-	Multi-play version of N-100W
Pioneer J-400M	649	CD,R,2T	50	-	Six-disc multiplay, Dolby Surr
Pioneer Impresso-3	749	CD,R,T	35	-	Separate components, CD with S
Pioneer J-500	779	CD,R,2T	65	-	Dolby Surround, seven band equ
Pioneer J-500M	829	CD,R,2T	65	-	Six-disc multiplay version of
Pioneer J-V600	879	CD,R,2T	65	-	Dolby Pro Logic A/V system, Mo
Pioneer Impresso-7	899	CD,R,T	45	-	As Impresso 3, with RDS tuner
Pioneer J-700	999	CD,R,2T	115	-	CD with Stable Platter mechani
Pioneer J-V600LD	1199	CD,R,2T	65	-	Includes PAL/NTSC LaserDisc pl
Samsung SCM6550	230	CD,R,Tu,2T	5	35,33,29	Midi, remote control
Samsung MAX335	230	CD,R,2T	10	25,32.26	Mini, remote control
Samsung SCM8100	300	CD,R,Tu,2T	20	36,37,29	Midi, remote control
Samsung MAX370	300	CD,R,2T	20	25,32,24	Mini, remote control
Samsung SCM8300	350	CD,R,Tu,2T	20	36,37,29	Midi, equaliser, 5 CD carousel
Samsung SCM9100	430	CD,R,Tu,2T	30	36,47,29	Midi, remote control
Sansui MS6901	420	CD,R,2T	50	18,26,34	
Sanyo SYS 220	300	CD,R,2T	15	36,36,37	
Sanyo MS1	300	CD,R,T	25	22,21,22	
Sanyo DC D10	300	CD,R,2T	15	27,36,32	
Sanyo DC-D15	350	CD,R,2T	15	27,36,32	10 disc CD player
Sanyo DC-D40	400	CD,R,2T	30	27,36,32	10 disc CD player
Sanyo SYS915	430	CD,R,2T	30	36,43,36	Four-disc CD player
Sharp System-S360E	230	CD,R,2T	10	27,32,33	Remote control
Sharp System-CD150E	260	CD,R,Tu,2T	10	36,48,36	30 tuner presets
Sharp System-S370E	270	CD,R,2T	25	27,32,33	Five band equaliser
Sharp System CD170E	280	CD,R,Tu,2T	10	36,40,36	Remote control, auto-reverse
Sharp CMS-R400CDX	300	CD,R,2T	10	27,32,39	Five-disc multi CD
Sharp System-Q8E	330	CD,R,T	12	15,19,26	Ultra compact
Sharp System-CD450E	370	CD,R,2T	80	27,32,25	Dolby NR
Sharp System-C5300E	450	CD,R,2T	30	26,32,25	Six-disc multi CD
Sony MMC450	300	CD,T,Tu,2T	20	22,29,27	
Sony Compact 190	330	CD,R,Tu,2T	9	35,48,34	
Sony MHC 650	380	CD,T,Tu,3T	35	22,28,26	Full remote
Sony Compact 195	389	CD,R,Tu,2T	9	35,49,41	
Sony Compact 290	400	CD,R,Tu,2T	30	35,48,35	
Sony Compact 295	450	CD,R,Tu,2T	30	35,49,41	Full remote
Sony MHC C50CD	500	CD,T,Tu,3T	30	22,33,32	Five-disc CD
Sony MHC Z900	500	CD,T,Tu,3T	40	22,28,26	Electronic EQ
Sony Compact 490	500	CD,R,Tu,2T	40	35,59,36	Five-disc CD
Sony MHC C70CD	600	CD,T,Tu,3T	40	22,39,31	Five-disc CD
Sony Compact Plus 590	600	CD,R,Tu,2T	60	43,48,39	Five-disc CD, electronic EQ

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Denon D-110/S	870	CD,R,Tu,2T	40	27 wide	RDS, inc. optional UK speakers



Key to tuners
Price - typical retail, to nearest pound.
Bands - FM - VHF, stereo and hi-fi capable, M - Medium wave, low quality, mono, L - Long Wave, low quality, mono, N - Nicam digital TV stereo sound.
Presets - total number of presets on all bands.

RDS - Radio Data System, which provides station IDs and sometimes other data on the FM waveband.
Size - width x height x depth in cm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Source	Power	Size	Special
SYSTEMS					
Sony MHC4900	800	CD,T,Tu,3T	60	22,41,28	
Sony MHC 5900AV	1000	CD,T,Tu,3T	60	22,41,28	UK sound
Sony Compact Plus 745AV	1000	CD,R,Tu,2T	60	43,48,39	Full size, separate components
Sony Compact Plus 995AV	1500	CD,R,Tu,2T	60	43,47,42	Dolby Pro Logic, LaserDisc
Technics SC-CH404	500	CD,R,Tu,2T	35	27,42,34	Mini, including speakers
Technics SC-CH505	600	CD,R,2T	50	27,42,34	Mini Karaoke, including speake
Technics SC-CH575	650	CD,R,2T	50	27,42,34	Mini, multi-changer
Technics CD-X120	700	CD,R,2T	40	36,41,32	Midi, including speakers
Technics SC-CH750	800	CD,R,2T	50	27,42,34	Mini, DSP, including speakers
Technics CD-X320	800	CD,R,Tu,2T	50	36,41,32	Midi, including speakers
Technics CD-X520	900	CD,R,Tu,2T	60	36,41,32	Midi, including speakers, basi
Technics SC-CH9090	1000	DCC,CD,R	60	27,42,34	DCC equipped mini system
Technics SC-CH950	1000	CD,R,2T	60	27,42,34	Pro Logic, soundfield speakers
Yamaha CC70	600	CD,R,2T	50	28,33,34	YST active bass

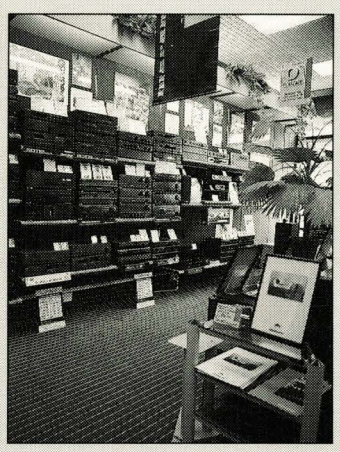
Model	Price	Bands	Presets	RDS	Size	Special
TUNERS						
Aiwa XT-003	120	FM,M,L	30	N	-	
Aiwa XT-950	150	FM,M	24	N	-	
Arcam Alpha 5	220	FM	16	N	43,8,27	
Arcam Delta 150	230	Nicam	8	-	43,7,27	Stereo TV tuner
Arcam Delta 280	350	FM	20	N	43,7,28	
Audiolab 8000T	700	FM,M,L	39	N	45,8,36	Switchable IF, muting, mono
Aura TU50	300	FM	16	N	43,6,27	Chrome finish + £50
Day Sequerra FM Ref	5457	FM	-	-	-	
Day-Seq S B'dcast Mon	14640	FM	-	-	-	
Denon TU-260L	120	FM,M,L	20	N	44,8,24	Low impedance output
Denon TU-580RD	220	FM,M	30	Y	44,8,29	Variable IF bandwidth
Goodmans GST650	90	FM,M,L	36	Y	-	
Goodmans Delta 700	100	FM,M,L	36	N	-	
Grundig T310	130	FM,M,L	59	Y	36,8,30	RDS, Radiotext, PTY, clock
Grundig T1	130	FM,M,L	59	N	44,9,30	Namable inputs, gain switch, r
Grundig T2	170	FM,M,L	59	Y	44,9,30	RDS Radiotext, clock, remote
Grundig T4	210	FM,M	59	Y	44,9,30	Radiotext, PTY, remote
Harman-Kardon TU92000	219	FM,M	70	-	45,8,38	
Harman-Kardon TU94000	299	FM,M	24	-	45,8,33	
Harman-Kardon TU96000	499	FM,M	24	-	45,8,33	
JVC FX362BX	140	FM,M,L	40	N	44,8,30	
JVC FX1010TN	300	FM,M,L	40	N	44,10,30	
Kenwood KT-1050L	110	FM,M,L	30	N	44,8,26	
Kenwood KT-2050L	140	FM,M,L	30	N	44,8,26	Built-in timer
Kenwood KT-3050L	170	FM,M,L	39	Y	44,10,28	IF selector
Kenwood KT-6050	300	FM,M	39	Y	44,10,33	IF switch, two antennae
Linn Kremlin	1995	FM	80	N	32,8,33	Dual aerial capability
Magnum Dynalab FT11	550	-	-	-	-	
Magnum Dynalab FT101	825	-	-	-	-	
Magnum FT101 Etude	1250	-	-	-	-	
Marantz ST-53	170	FM,M,L	59	N	42,9,30	D-bus
Marantz ST-63	200	FM,M,L	59	Y	42,9,30	D-bus
Marantz ST-72L	300	FM,M,L	59	Y	42,10,34	D-bus, IF switch, local switch
McIntosh MR7083	1995	FM,M	16	N	-	Interface to McIntosh remote c
Meridian 504	595	FM	30	N	33,9,34	System handset
Meridian 604	1350	FM	30	N	-	
Michi RHT-10	895	FM	16	N	47,8,34	Remote control
Mission Cyrus FM7	400	FM	29	N	22,8,36	Rmote control bus
Mus-Fid T1 MK II	299	FM	8	N	44,8,32	Autoseek, mono switching
Musical Fidelity FT	899	FM	20	N	49,12,33	Remote control, bandwidth limi
Naim NAT03	499	FM	-	N	21,16,30	
Naim NAT02	910	FM	-	N	21,16,30	
Naim NAT01	1453	FM	-	N	21,16,30	
Onix BWD1	420	FM	-	N	75,23,37	In-house front end
Onkyo T-401	160	FM,MW	40	N	46,8,31	
Onkyo T-409	230	FM,MW	30	N	-	Mini component
Onkyo T-450RDS	260	FM,MW	30	Y	46,9,31	
Onkyo T-411RDS	280	FM,MW	30	Y	-	Mini component
Onkyo R-811RDS	420	FM,MW	30	Y	-	Mini component, incl timer
Philips FT930	160	FM,M,L	40	Y	44,11,30	
Pioneer F-202L	130	FM,M,L	36	N	42,8,29	
Pioneer F401L	180	FM,M,L	36	N	42,9,32	
Pioneer F-301RDS	200	FM,M	36	Y	42,8,25	
Pioneer F-502RDS	250	FM,M	40	Y	42,9,34	
Pioneer F-502RDS-G	260	FM,M	40	Y	42,9,34	
Pioneer F93	650	FM,M	40	N	46,11,36	
Quad FM4	434	FM	7	N	33,7,21	
Quad FM66	532	FM	19	N	33,8,26	For use with Quad 66 system
Rotel RT930AX	175	FM,M,L	20	N	44,8,26	
Rotel RT950BX	200	FM,M,L	20	N	44,8,24	
Rotel RT990BX	510	FM	16	N	44,8,29	Remote control
Sansui TU-X317	170	FM,M	20	-	-	
Sansui TU-X519	220	FM,M	30	-	-	
Sherwood TD1120	90	FM,M	24	N	-	
Sherwood TX1010C	100	FM,M	30	N	-	

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Linn Kremlin	1995	FM	80	N	32,8,33	Dual aerial capability

SEVENOAKS SUPERFI

hi fi products



AFTER SALES CARE

Each of our Sevenoaks Superfi branches is served by a dedicated Central Service Department. Approved by all the leading manufacturers, our team of six fully trained engineers is capable of repairing 99% of all repairs - in our own workshops. Once the repair is complete we give you a 3 month Warranty. The kind of of back up you'd expect from one of the leading independent Hi Fi retailers in country.

DISPLAY & DEMONSTRATIONS

The moment you step through the door of a Sevenoaks Hi Fi or Superfi branch you're going to be better looked after. With over 21 years experience in Hi Fi, Video and TV retail we're here to make sure you get the equipment that best suits your needs and your budget.
You'll find a wide range of products with the emphasis on quality rather than country of origin. And not only is everything we sell on display, but it's also available for demonstration. Each of our branches has dedicated demonstration facilities to help you enjoy choosing your equipment.



ADDED VALUE

- **Full selection of Hi Fi Press Award Winners**
- **Free CDs on selected CD Players** — FREE
- **CD Vouchers available on selected purchases** — £10 VOUCHER
- **Free TDK Tapes on selected Cassette Deck purchases** — FREE
- **Free 007 stands and cable on selected speaker purchases** — SPEAKER STANDS FREE
- **Free Headphones worth £ 40 on selected Hi Fi Separates over £500** — FREE
- **0% Finance available on selected Hi Fi Separates (not suggested systems)** — 0% FINANCE*
- **Dedicated listening rooms in all our branches**



And if you thought this level of service might be expensive - you'd be wrong. Our prices are the most competitive around, and our added value offers famous throughout the industry.

SUGGESTED SYSTEMS

The suggested systems priced below all include the popular **NAD 5120** turntable but an alternative turntable or CD Player is available at extra cost. Please see **CHOICES** list below for further details.

Amplifiers / Speakers	**Technics** SUVZ220K	**NAD** 302 **Kenwood** KA3020 **Technics** SUVZ320K	**Harman** HK6150 **Technics** SUA600K **Marantz** PM44SE	**NAD** 304 **Pioneer** A300X	**Technics** SUA700K
JPW Sonata V Celestion i JPW Minim	**226.95**	**273.95**	**296.95**	**319.95**	**335.95**
Celestion 3 Mkii JPW Sonata W Mission 760i	**265.95**	**312.95**	**335.95**	**358.95**	**374.95**
Tannoy 603 Mkii Mission 760i SE NAD 800	**280.95**	**327.95**	**351.95**	**374.95**	**390.95**
Tannoy 605 Mkii Celestion 5 Mkii B&W DM600 Mission 761i Mon Audio 1	**304.95**	**351.95**	**374.95**	**397.95**	**413.95**
Tannoy 607 MkII Celestion 7 MkII NAD 802	**335.95**	**382.95**	**405.95**	**429.95**	**444.95**

CHOICES

The following Compact Disc Player or Turntable may be ordered instead of the **NAD 5120** in the above systems:~

CD PLAYERS

Aiwa XC300 Add £ 29
Denon DCD695 Add £ 99
Goodmans GCD360 Add £ 0
Goodmans GCD650II Add £ 9
Marantz CD52II Add £ 79
Marantz CD52IISE Add £ 169
Marantz CD53 Add £ 79
Marantz CD63 Add £ 139
NAD 501 Add £ 79
NAD 502 Add £ 99
TEAC CDP3500 Add £ 99
Technics SLPG440AK Add £ 59

TURNTABLES

Dual CS503.2 Add £ 69
Dual CS505.4 Add £ 99
NAD 533 Add £ 99
Project 0.5 Add £ 49
Technics SLBD22K Add £ 49
Thorens TD280 IV Add £ 99

PRICE PROMISE

We always try to ensure our prices are competitive. In the unlikely event of an identical product being available from an authorised dealer at a lower price, we will beat that price by up to £ 20. To qualify it must be a verifiable offer on product that is in stock, brand new and in a sealed box.
No Added Value Offers apply on price beat sales

PRICE BEAT VALUES:

£ 110 - £ 500	**= £ 10**
£ 501 - £ 1,000	**= £ 15**
£ 1,001+	**= £ 20**

0% FINANCE

We offer 0% finance on a wide range of Hi Fi separates. **Package 1**: 10% deposit followed by 6 equal monthly payments. Example: Cost £ 600. Deposit £ 60 plus 6 payments of £ 90. **Package 2**: 25% Deposit followed by 9 equal monthly payments. Example: Cost £ 600. Deposit £ 150 plus 9 payments of £ 50. **Package 3**: 50% deposit followed by 12 equal monthly payments. Example: Cost £ 840. Deposit £ 420 plus 12 payments of £ 35. All Options: Minimum balance £ 400. Subject to status. 0% APR. Personal shoppers only. Written details on request.

26 BRANCHES NATIONWIDE SEE

THE SPECIALIST

HI FI PRODUCT SELECTION

AMPLIFIERS

Alchemist Kraken (Slate)	£ 399.95
Arcam Alpha 5	£ 229.95
Arcam Alpha 6	£ 329.95
Arcam Delta 290	£ 449.95
Aura VA80	£ 279.95
Aura VA100 Black	£ 329.95
Audiolab 8000A/II	£ 449.95
Audiolab 8000C/II	£ 449.95
Audiolab 8000M (each)	£ 699.95
Audiolab 8000P/II	£ 649.95
Cyrus (S/oaks branch only)	£ 499.95
Denon PMA250III	£ 159.95
Denon PMA350 II	£ 219.95
Denon PMA480R	£ 219.95
Denon PMA450	£ 249.95
Denon PMA880R	£ 299.95
Exposure EXP20	£ 624.95
Exposure EXP15 MM	£ 724.95
Exposure EXP17 MM	£ 774.95
Exposure EXP18	£ 749.95
Harman Kardon HK1400	£ 399.95
Harman Kardon HK6150	£ 199.95
John Shearne Phase II	£ 549.95
Kenwood KA3020	**£ 149.00**
Kenwood KA3020SE	£ 199.95
Marantz PM32	£ 139.95
Marantz PM44SE	£ 199.95
Marantz PM54SE	£ 299.95
Musical Fid A1 Mk III	£ 329.95
Musical Fid F15	£ 1899.95
Musical Fid F22	£ 999.95
Nad 302	£ 179.95
Nad 304	£ 239.95
Nad 306	£ 349.95
Nad 3020i	**£ 78.00**
Pioneer A300X	£ 229.95
Pioneer A400X	£ 299.95
Quad 66 inc RI	£ 862.95
Quad 34	£ 398.95
Quad 306	£ 349.95
Quad 606	£ 689.95
Rotel RA930AX	£ 174.95
Rotel RA935BX	£ 224.95
Rotel RB970BX	£ 224.95
Rotel RC970BX	£ 149.95
Technics SUA600K	£ 199.95
Technics SUA700K	£ 249.95
Technics SUA900K	£ 399.95

MINI/MICRO SYSTEMS

Aiwa, Denon, JVC, Sony& Technics
Refer to our Mini/Micro Ad P.O.A.

TUNER AMPS

Denon DRA365RD	£ 249.95
Denon DRA545RD	£ 319.95
Marantz SR53	£ 269.95
Nad 701	£ 259.95
Nad 705	£ 329.95

CASSETTE / DCC DECKS

Aiwa ADF410	**£ 74.00**
Aiwa ADF450	£ 119.95
Aiwa ADF810	**£ 159.00**
Aiwa ADF850	£ 229.95
Aiwa ADWX727	£ 169.95
Aiwa ADWX828	£ 199.95
Aiwa ADWX929	£ 249.95
Denon DRM540	£ 159.95
Denon DRS610	£ 199.95
Denon DRS810	£ 299.95
Denon DRW760	£ 249.95
JVC TDW308	£ 199.95
Marantz SD53	£ 199.95
Marantz SD63	£ 249.95
Nad 602	£ 199.95
Nakamichi DR1	**£849.95**
Nakamichi DR2	**£599.95**
Nakamichi DR3	**£359.95**
Philips DCC300 inc C/B	**£178.00**
Philips DCC500 inc C/B	**£228.00**
Pioneer	P.O.A.
Sony TCK411	**£ 149.00**
Sony TCK511S	**£ 189.00**
Sony TCK611S	**£ 249.00**
Technics RSTR373K	£ 179.95
Technics RSTR474K	£ 199.95

AUDIO VISUAL

B & W, Canon, Celestion, Denon, JBL, Kef, Kenwood, Marantz, Mon Audio, Mordaunt Short, Pioneer, Tecnics & Yamaha. Refer to our A/V Ad.

SPEAKERS

SPEAKER STANDS

Aura SP50	£ 399.95
B & W DM600i	£ 189.95
B & W DM610i	£ 249.95
B & W DM620i	£ 429.95
B & W 805	£ 895.95
B & W 804	£ 1495.95
Castle Chester	£ 649.95
Castle Howard	£ 999.95
Castle Durham II	£ 249.95
Castle Durham 900	£ 279.95
Castle Trent II	£ 199.95
Castle York	£ 349.95
Celestion 1	£ 109.95
Celestion 3 Mk II	£ 129.95
Celestion 5 Mk II	£ 169.95
Celestion 7 Mk II	£ 219.95
Heybrook HB1/3	£ 259.95
Heybrook Prima	£ 129.95
Heybrook Quartets	£ 555.95
JPW Sonata Veneer	£ 119.95
JPW Sonata Vinyl	£ 99.95
JPW Minim	**£ 59.00**
Kef R101.3	£ 549.95
Kef R102.2	£ 749.95
Kef R103.4	£ 1199.95
Kef R104.2	£ 1595.95
Kef R105.3	£ 2295.95
Kef R107.2	£ 3695.95
Kef Q10	£ 199.95
Kef Q30	£ 349.95
Kef Q50	£ 499.95
Mission 751	£ 299.95
Mission 752	£ 499.95
Mission 753	£ 699.95
Mission 760i	£ 129.95
Mission 760iSE	£ 149.95
Mission 76li	£ 179.95
Mission 780SE	£ 239.95
Mon Audio 201	£ 249.95
Mon Audio 202	£ 399.95
Mon Audio 1 Gold	£ 189.95
Mon Audio 7 Gold	£ 249.95
Mon Audio 14 Gold	£ 469.95
Mordaunt Short MS10	£ 129.95
Mordaunt Short MS20	£ 179.95
Nad 800	£ 149.95
Nad 801	£ 99.95
Nad 802	£ 229.95
Nad 804	£ 329.95
Quad ESL 63	£ 2859.95
Quad Gradient SW63	£ 1699.95
Rogers LS2A-2	£ 249.95
Rogers LS4A-2	£ 329.95
Rogers Studio 3	£ 499.95
Ruark Crusader II	£ 1495.95
Ruark Equinox	£ 1749.95
Ruark Swordsman Plus	£ 299.95
Ruark Sabre	£ 384.95
Ruark Talisman II	£ 699.95
Ruark Templar	£ 479.95
Systym 931	£ 299.95
Systym 935	£ 399.95
Systym 939	£ 699.95
Tannoy 603 Mk II	£ 139.95
Tannoy 605 Mk II	£ 169.95
Tannoy 607 Mk II	£ 219.95
Tannoy 609 Mk II	£ 294.95
Tannoy 611 Mk II	£ 429.95
Tannoy 613 Mk II	£ 599.95
TDL RTL1	£ 199.95
TDL RTL2	£ 299.95
TDL RTL3	£ 399.95
TDL NFM	£ 119.95
Wharfedale Modus	P.O.A

TURNTABLES

Dual CS503-2 inc. cart	£ 169.95
Dual CS435 inc. cart	£ 129.95
Dual CS505-4 inc. cart	£ 199.95
Goodmans GSP650 inc. cart	£ 59.95
Nad 5120 inc. cart	**£ 99.00**
Nad 533	£ 199.95
Project 0.5 inc cart	£ 144.95
Project 1 inc cart	£ 184.95
Project 6 inc cart	£ 435.95
Systemdek IIX 900 (ex)	£ 229.95
Technics SLBD22K	£ 159.95
Technics SL1210 II	£ 429.95
Thorens TD280 Mk IV inc. cart	£ 199.95
Thorens TD166/RB250	£ 299.95

TUNERS

Arcam Alpha 5	£ 219.95
Arcam Delta 280	£ 349.95
Audiolab 8000T	£ 699.95
Cyrus (S/oaks branch only)	£ 399.95
Denon TU260L	£ 119.95
Denon TU380RDS	£ 189.95
Denon TU580RD	£ 219.95
Marantz ST40L	£ 139.95
Marantz ST53L	£ 169.95
Musicial Fideltiy T1 II	£ 299.95
Nad 402	£ 169.95
Pioneer F502RDS	£ 249.95
Quad 66FM	£ 532.95
Rotel RT930AX	£ 174.95
Rotel RT950BX	£ 224.95
Sony STS311RDS	**£ 169.00**
Teac TX4030	£ 119.95

COMPACT DISC PLAYERS

Aiwa XC300	**£ 119.00**
Aiwa XC750	**£ 139.00**
Audio Alchemy DAC inc box	£ 199.95
Audiolab 8000 CDM	£ 1249.95
Audiolab 8000 DAC	£ 749.95
Aura CD50	£ 399.95
Arcam Alpha 5	£ 449.95
Arcam Black Box 50	£ 449.95
Arcam Delta 270	£ 799.95
Arcam Delta 250 Trans	£ 749.95
Cyrus (Sevenoaks branch only)	P.O.A.
Denon DCD595	**£ 149.00**
Denon DCD615	£ 179.95
Denon DCD695	£ 199.95
Denon DCD1290	£ 329.95
Goodmans GCD360	£ 99.95
Goodmans GCD650 MKII	£ 109.95
Kenwood DP7050	£ 349.95
Marantz CD10	£ 1199.95
Marantz CD52 II	**£ 179.00**
Marantz CD52 II SE	£ 299.95
Marantz CD53	£ 199.95
Marantz CD63	£ 249.95
Marantz CD72SE	£ 599.95
Musical Fidelity CDT	£ 519.95
Musical Fidelity FCD	£ 1499.95
Nad 501	£ 179.95
Nad 502	£ 229.95
Nakamichi MB4S	£ 299.95
Philips	P.O.A
Pink Ordinal	£ 789.95
Pink Triangle Da Capo	£ 1449.95
Quad 67	£ 824.95
Roksan Transport/DAC	P.O.A.
Rotel RCD945AX	£ 229.95
Rotel RCD965BX	£ 299.95
Rotel RCD965BX Discrete	£ 374.95
Rotel RCD965BXLE Discrete	£ 424.95
Sony	P.O.A.
Teac CDP3500	£ 199.95
Teac VRDS7	£ 599.95
Teac VRDS10	£ 769.95
Teac VRDS20	£ 1299.95
Teac P700/D700	£ 1499.95
Technics SLPD667 Multi	£ 179.95
Technics SLPD867 Multi	£ 199.95
Technics SLPG440AK	£ 169.95
Yamaha CDX870	**£ 199.00**

All prices are valid until at least July 31st , 1994

SEVENOAKS HI FI BRANCHES AT:

SEVENOAKS 0732 459555
109-113 London Road

BRIGHTON 0273 733338
55 Preston Street

CANTERBURY 0227 462787
20a Lower Bridge Street

CHATHAM 0634 846859
4 Railway Street

new **CHELSEA 071 352 9466**
403 Kings Road, SW10

CHELTENHAM 0242 241171
24 Pittville Street

CROYDON 081 665 1203
373 London Road

ENFIELD 081 342 1973
7 Genotin Road

ESSEX 0376 501733
1 The Grove Centre
Witham

GUILDFORD 0483 36666
73b North Street

LEICESTER 0533 557518
94 Granby Street

OXFORD 0865 241773
41 St Clements

TUNBRIDGE WELLS
0892 531543
28-30 St Johns Rd

WATFORD 0923 213533
478 St Albans Road

WOOLWICH 081 855 8016
162 Powis Street

MAIL ORDER 0732 458985

SUPERFI BRANCHES AT:

BIRMINGHAM 021 631 2675
67 Smallbrook, Queensway

new **COVENTRY 0203 223254**
16 Spon Street

DERBY 0332 360303
56 London Road

HULL 0482 24051
4 Dock Street

LEEDS 0532 449075
7 King Edward Street

LINCOLN 0522 520265
271a High Street

LONDON 071 388 1300
2-4 Camden High Street

NOTTINGHAM 0602 412137
15 Market Street

SHEFFIELD 0742 723768
1 Rockingham Gate
The Moor

STOKE ON TRENT
0782 265010
51 Picadilly, Hanley

SEVENOAKS SUPERFI

OVER FOR FULL DETAILS ▶

high end hi fi

MUSICAL EXPRESSION

exposure



17 & 18

Exposure

Exposure has for the past fifteen years been one of the small group of companies which made its presence felt more by reputation than promotion. Many of John Farlowes designs like the **17/18, - 15 - 20** have been acclaimed both in the UK and abroad for striking musical performance, and excellent build quality.

But that's not all. We also have Audiolab, Cyrus, Musical Fidelity, John Shearne and Quad for you to consider.

michell

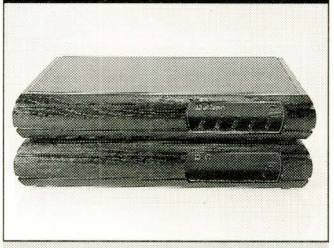


gyro dec

Michell

The **Gyro Dec** has always been a class act. Beautifully styled. it looks like no other turntable, and has the performance to match. After twenty years of success John Michell now compliments it is with products that are impossible not to recommend. At Sevenoaks-Superfi you can audition the range including - **Argo (Preamp), Iso (Head amp) - Alecto (Power amps)**. The new **HR (High Resolution)** products are also available. Other turntables Include Pink Triangle, **Export GTI** and **Anniversary**.

pink triangle



da capo/batt psu

Pink Triangle

The **Da Capo** with it's optional DC power supply. represents one of the very best Digital to Analogue converters in the world. A highly acclaimed product renowned for superb imagery, detail and choice of filters (18, 20, 22 Bit, 1307). We also stock the **Ordinal** (DAC).

Our other Audiophile CD players, Transports and DAC's include Teac, Roksan, Musical Fidelity, Quad, Arcam, Audiolab, Audio Alchemy and Cyrus.

Ruark

When a speaker company belongs to the Guild of Master Craftsman and offers a selection of real wood veneers (imported from all over the World), models like **Templar, Talisman II, Crusader II** (see picture) and **Equinox** can combine innovative design outstanding performance and superb finishes that set new standards.

ruark



crusader II

And there's many other quality loudspeakers from Castle, TDL, Heybrook, Kef Reference, Mission and Monitor Audio.

musical fidelity



fcd

Musical Fidelity

Visual impact that is only matched by sound quality is the hallmark of Musical Fidelity's 'F Series' components. For over 10 years, this remarkable and highly individualistic company has been delighting its customers with beautiful music, beautifully reproduced.

At Sevenoaks Superfi you'll also find top quality tuners from names like Audiolab, Musical Fidelity and Cyrus, plus cassette decks from Nakamichi, Sony and many, many more.

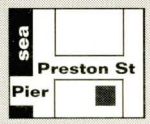
Van den Hul

New "Metal-Less" Carbon interconnect cables (the **First**, the **Second**) now availiable - A **Revelation**!

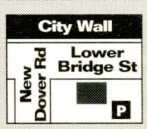
26 BRANCHES THROUGHOUT



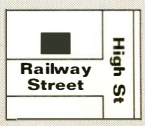
SEVENOAKS
109-113 London Road
0732 459555
Sevenoaks Hi Fi



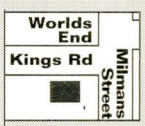
BRIGHTON
55 Preston Street
0273 733338
Sevenoaks Hi Fi



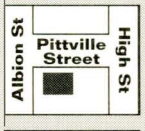
CANTERBURY
20a Lower Bridge Street
0227 462787
Sevenoaks Hi Fi



CHATHAM
4 Railway Street
0634 846859
Sevenoaks Hi Fi



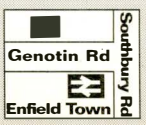
CHELSEA
403 Kings Road, SW10
071 352 9466
Sevenoaks Hi Fi



CHELTENHAM
24 Pittville Street
0242 241171
Sevenoaks Hi Fi



CROYDON
373 London Road
081 665 1203
Sevenoaks Hi Fi



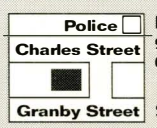
ENFIELD
7 Genotin Road
081 342 1973
Sevenoaks Hi Fi



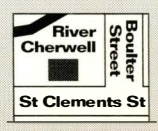
ESSEX
1 The Grove Centre,Witham
0376 501733
Sevenoaks Hi Fi



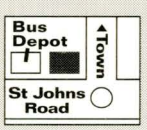
GUILDFORD
73b North Street
0483 36666
Sevenoaks Hi Fi



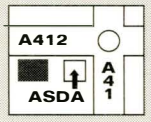
LEICESTER
94 Granby Street
0533 557518
Sevenoaks Hi Fi



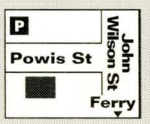
OXFORD
41 St Clements
0865 241773
Sevenoaks Hi Fi



TUNBRIDGE WELLS
28-30 St Johns Road
0892 531543
Sevenoaks Hi Fi



WATFORD
478 St Albans Road
0923 213533
Sevenoaks Hi Fi



WOOLWICH
162 Powis Street
081 855 8016
Sevenoaks Hi Fi



BIRMINGHAM
67 Smallbrook, Queensway
021 631 2675
Superfi

MINIS & MICROS

OPTIONS

Once you,ve chosen the system you want, choose the mini /micro price option that suits you best. We've developed a four tier system that is geared to the level of service you require.

OPTION 1

Full RRP less 10% discount for cash and carry customers. Standard manufacturers warranty

OPTION 2

Full RRP, to include delivery, installation, 1 year parts and labour warranty and home call out.

OPTION 3

Full RRP, to include a 3 year parts and labour warranty on cash and carry basis.

OPTION 4

Full RRP plus £ 100, to include delivery, installation, 5 year parts and labour warranty and home call out.

INSTALLATION / CALL OUT CONDITIONS

Install must be adjacent to mains/aerial point. Customers must live within 7 miles of local branch

TECHNICS



SCCH 950

The compact size and tidy appearance of the latest mini and micro systems hide the fact that these miracles of modern miniaturisation provide a big sound. Systems now boast more powerful amps, powered subwoofers, and many other features that enable the best of them to produce a sound big enough to fill a room.

So whether you're looking for a first class secondary system, or you want a big sound in a small package, you'll find what you're looking for at Sevenoaks Superfi.

AIWA



LCX9

JVC



UXT1

We stock top name systems including Sony, JVC, Aiwa, Technics, Kenwood and Pioneer.

PRICE PROMISE

We always try to ensure our prices are competitive. In the unlikely event of an identical product being available from an authorised dealer at a lower price, we will beat that price by up to £ 20. To qualify it must be a verifiable offer on product that is in stock, brand new and in a sealed box.
No added value Offers apply on price beat sales.

PRICE BEAT VALUES:

£110 - £500 = £10

£501 -£1,000= £15

£1,001+ = £20

GUARANTEES

All the products we sell are brand new, fully guaranteed and maintained by our own Central Service Department .

SUPERFI CENTRAL SERVICE DEPARTMENT 0602 420414

SEVENOAKS CENTRAL SERVICE DEPARTMENT 0732 459105

MAIL ORDER HOTLINE 0732 458985

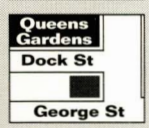
THE COUNTRY...



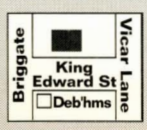
COVENTRY
16 Spon Street
0203 223254
Superfi



DERBY
56 London Road
0332 360303
Superfi



HULL
4 Dock Street
0482 24051
Superfi



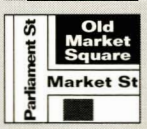
LEEDS
7 King Edward Street
0532 449075
Superfi



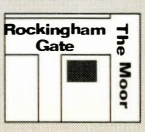
LINCOLN
271a High Street
0522 520265
Superfi



LONDON
2-4 Camden High Street
071 388 1300
Superfi



NOTTINGHAM
15 Market Street
0602 412137
Superfi



SHEFFIELD
1 Rockingham Gate,
The Moor
0742 723768
Superfi



STOKE ON TRENT
51 Picadilly, Hanley
0782 265010
Superfi

NEW BRANCH OPENING SOON

WORCESTER
2 Reindeer Court
Sevenoaks Hi Fi

Prices include Vat and were correct at time of going to press, but are subject to change without prior notice. E&OE. Most, but not all, of the offers displayed are also available from our associates Superfi. Sevenoaks Hi Fi and Superfi are not legally related and are separate commercial undertakings.
All prices are valid until at least July 31st, 1994

SEVENOAKS SUPERFI

Listen inn

LESS HI-FI . . . MORE MUSIC

Arcam, Audiolab, Creek, Cyrus, Denon, Epos, Heybrook, Linn, Marantz, Mission, NAD, Naim, Nakamichi, Rega, Rotel . . . plus other selected brands.
Not all brands stocked at both shops.

6 HOTEL STREET, LEICESTER
TEL: 0533 623754

32 GOLD STREET, NORTHAMPTON
TEL: 0604 37871

Mail Order Madness
Phone For A Catalogue

The SPEAKER Company
Coustic
morel
seas
RCF
VOLT
KEF
EMINENCE
CELESTION
SPECTRA Dynamics
PRECISION DEVICES

Boxcalc cabinet design software now available
design your own Band pass, Reflex and IB systems
Only£69.00 inc p&p

AMERICAN EXPRESS
MasterCard
VISA

Unit 9 Waterside Mill
Waterside Macclesfield
Cheshire SK11 7HG
Tel No 0625-500507
Fax No 0625-500508

WOLLATON
A-U-D-I-O

THE MONARCHY
DIP
Digital Interface Process

The DIP will improve your CD transport by banishing jitter

Guaranteed improvement in sound our your money back

See the review of the DIP and the other Monarchy products in this issue

£245 + P&P

Available exclusively from

Wollaton Audio
Tel/fax: (0602) 284147

V'AUDIO

36 Druid Hill, Stoke Bishop, Bristol BS9 1EJ
Telephone: 0272 686005

FUTURE ATTRACTIONS

By the time this advert appears we should have the following exciting items on demo.

A) Electrocompaniet **NEW** super fidelity units; initially this will consist of the EC-4 line-stage pre-amp (£1460), it's matching ECP-1 MM/MC Phono Amp (£625), and the Ampliwire 100SF Dual Mono Balanced 2 x 100w Power Amp. (£2140). Class A performance during most operating conditions contribute to musical ease of the Power Amps. The units will be in the 'Larvikit' stone front finish as used on the Limited Edition Signature Units, but can also be obtained with black acrylic faceplate and gold handles. Gold plated RCA jacks and speaker terminals, as well as XLR's are standard. We are the first UK dealer to have these units – see also esoteric audio imports advert in this issue.

B) Trichord Research 'Pulsar' Dac Outboard Power Supply improving even further the sound of this very popular unit.

C) The Triangle TE60, which has impressed from the moment we heard it - near class 'A' sound, it does get hot - but sounds great on **ALL** our speakers. Now run in the complete E speakers are well worth a listen, especially for acoustic/OA22 fans. The TE60 is also an excellent Pre-Amp and is superb driving the Toca 22 watt pure class A power amp into the Quad 63's.



Key to turntables.
Price - typical retail, to nearest pound.
Speeds - 33, 45 and/or 78 revolutions per minute.
Type - A - Auto, that is, automatic play initiation, and arm return at end of side.
S - Semi, arm lift or arm return at end of side. M - Manual.

Size - width x height x depth in cm.

Special - Cartridge and/or arm included etc.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Bands	Presets	RDS	Size	Special
TUNERS						
Sherwood TX3010C	120	FM,M	30	N	-	
Sony STS211LB	130	FM,M,L	30	N	43,9,30	Station naming
Sony STS311LB	200	FM,M,L	30	Y	43,9,30	RDS EON, 'Autobetical' select
Sony STS505ES	250	FM,M,L	30	Y	43,9,35	UK optimised sound
Teac T-X4030	120	FM,M	20	N	44,9,28	
Technics ST-6T350L	140	FM,M,L	30	N	43,7,30	
Technics ST-GT550L	190	FM,M,L	39	N	43,7,31	Remote control capable
Technics ST-GT650L	230	FM,M,L	39	Y	43,10,31	Class AA, remote control ready
Yamaha TX-350L	130	FM,M,L	40	N	-	
Yamaha TX-470	160	FM,M	40	N	N	

Model	Price	Type	Speeds	Size	Special
TURNTABLES					
Akai AP A950	179	M	33/45	44,12,35	Inc cartridge
Alphason Sonata	835	M	33	-	Motor unit, suspended
Alphason Sonata/Atlas	1235	M	33/45	-	Motor unit inc PSU
Alphason Symphony	1860	M	33/45	-	Motor unit & PSU
Ariston Pro-1200	160	M	33/45	-	Semi-pro disco deck
Audiomeca Romance	1675	M	33/45	-	With Romeo unipivot arm
Audiomeca J1	2500	M	33/45	50, 40, 2	Top of the range model
Audiomeca J1/SL5	4250	M	33/45	50, 40, 2	With parallel tracking arm
B&O 7000	505	Auto	33/45	42,8,33	Inc MMC2 cartridge, RIAA pream
Basis Ovation	4950	M	33/45	58,42,14	Lead/brass, record clamped
Basis Debut Gold Std	7250	M	33/45	58,42,19	Belt drive, high mass, four po
Basis Debut Suction	8550	M	33/45	58,42,19	Includes suction platter
DNM Rota 1	2850	M	33/45	59,14,37	Includes arm and cartridge
DNM Rota 2	4000	M	33/45	59,14,37	Includes arm and cartridge
Dual CS3700	85	S	33/45	36, 36, 9	Midi-sized turntable
Dual CS435	130	F	33/45	44, 36, 1	Turntable includes cartridge
Dual CS503-2	170	S	33/45	44, 13, 3	Turntable includes cartridge
Dual 505-4 UK	200	S	33/45	44, 15, 3	Turntable inc cartridge
Dual CS750-1	350	S	33/45/78	44, 14, 3	Turntable includes cartridge
Dual Golden One	500	S	33/45/78	44, 14, 3	Piano finish CS750-1
Genexxa Lab-710	60	M	33/45	-	Includes MM cartridge
Genexxa Lab-810	70	S	33/45	-	Includes MM cartridge
Goodmans Delta 700	55	S	33/45	-	Part of Delta system
Kenwood KD-491F	100	A	33/45	44,10,39	Includes cartridge
Kuzma Stabi/PS	1200	M	33/45	51, 18, 4	Belt driven, external PSU
Kuzma Stabi Ref/PS	3000	M	33/45	-	Two motor, belt driven
Linn Basik	349	M	33/45	45,14,36	Complete with Akito arm
Linn LP12 Basik	745	M	33	45,14,36	Non-crystal motor drive
Linn LP12 Valhalla	894	M	33/45	45.14,36	Electronic PSU, upgradable
Linn LP12 Lingo	1345	M	33/45	45,14,36	Outboard high grade PSU
Manticore Madrigal	570	M	33/45	46,36,12	Turntable
Manticore Mantra	780	M	33/45	46,36,12	Turntable
Manticore Magister	3800	M	33/45	57,46,18	Special order only
Michell Mycro	397	M	33/45	46,14,34	
Michell Mycro/arm	539	M	33/45	46,14,34	Includes Rega RB300 arm
Michell Gyrodek	697	M	33/45	53,19,41	Optional outboard PSU
Michell Gyrodek/arm	839	M	33/45	53,19,41	Includes Rega RB300 arm
Moth Alamo	175	M	33/45	-	Comes with RB250 arm
Moth Turntable	199	M	33/45	-	Split-plinth design
NAD 5120	110	S	33/45	-	Includes arm
N'ham Spacedeck	600	M	33.45	-	
N'ham Illusion	600	M	33/45	-	
N'ham HyperSpacedeck	1200	M	33/45	-	
N'ham Graphic	1200	M	33/45	-	
N'ham Mentor	2200	M	33/45	-	75lb alloy or graphite platter
N'ham Mentor Ref	4800	M	33/45	-	150lb platter, graphite top
Origin Live Oasis-S	899	M	33	-	Suspended turntable
Pink Triangle Export GTi	890	M	33/45	46,15,37	Suspended turntable, acrylic p
Pink Triangle Anniv	1695	M	33/45	45,15,37	Two box reference deck
Pink Triangle Anniv/PSU	2050	M	33/45	45,15,37	Battery PSU version of above
Pioneer PL-225	120	S	33/45	42,10, 36	Belt drive, fitted cartridge
Pioneer PL-335	150	A	33/45	42,10,36	Belt drive, fitted cartridge
Pro-ject 0.5	145	S	33/45	42, 11, 3	With Ortofon OM5 cartridge
Pro-ject 1	185	M	33/45	42, 11, 3	With Ortofon 510 cartridge
Pro-ject 1 (E)	209	S	33,45	42,11,32	Semi-auto version of Pro-ject
Pro-ject 2	249	M	33/45	46, 12, 3	Metal/glass platter, clamp
Pro-ject 2/Ortofon	275	M	33/45	46, 12, 3	With Ortofon MC1 cartridge
Pro-ject 6	379	M	33/45	46, 17, 3	Suspended turntable
Pro-ject 6/Ortofon	435	M	33/45	46, 17, 3	As above, with Ortofon MC15
Pro-ject 6/Sumiko	699	M	33/45	46,17,3	With Sumiko arm
Rega Planar 78	198	M	78	45,13,37	As Rega Planar 2, 78 only
Rega Planar 2	198	M	33/45	45,13,37	Includes RB250 arm
Rega Planar 3	260	M	33/45	45,13,37	Includes RB300 arm
Rivelin Audio Eclipse	1595	M	33/45	45,13,38	Motor unit
Roksan Radius	495	M	33/45	46,12,35	Motor unit
Roksan Radius/Tabriz	695	M	33/45	45,13,36	As above, with Roksan arm
Roksan TMS	2500	M	33/45	46,12,35	Reference motor unit
Sherwood PS1870	70	S	33/45	-	Budget turntable with arm
SME Model 20	2683	M	33/45/78	42,16,32	Precision turntable

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Voyd 0.5	3368	33/45	M	51,16,42	Upgraded standard Voyd



Key to cartridges.
Price - typical retail, to nearest pound.
Type - MM - moving magnet (output typically 1mV/cm/sec), MC - moving coil (output typically 0.1mV/cm/sec).
Output - in mV/cm/sec
Int. stylus - Y for removable/replaceable styli and N for fixed styli.

Fit - N for normal half inch mountings, T for T4P plug in types.
Weight - in grams.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Speeds	Size	Special
TURNTABLES					
SME Model 20A	3763	M	33/45/78	42,15,32	With SME Series V arm
SME Model 30	10166	M	33/45/78	45,22,35	Flagship turntable
SME Model 30A	11399	M	33/45/78	45,22,35	With SME Series V arm
Sony PSLX1504H	90	S	33/45	43,10,36	Player, with MM cartridge
Sony PSLX431B	150	A	33/45	43,11,36	Player, auto rec size select
Systemdek I/920	136	M	33/45	-	Semi-suspended deck
Systemdek IIX/900	230	M	33/45	-	Fully suspended design
Systemdek I/920/Moth	235	M	33/45	-	As above with RB250 arm
Systemdek IIXE/900	330	M	33/45	-	As above with separate PSU
Technics SL-BD20	140	S	33/45	43,10,38	Belt drive, includes T4P cartr
Technics SL-BD22	160	S	33/45	43,10,38	Belt drive, includes T4P cartr
Technics SL-1210MkII	430	M	33/45	46,17,36	Quartz DD, no cartridge
Technics SL-1200MkII	430	M	33/45	43,10,38	Quartz DD, includes T4P cartri
Thorens TD-180/AT91	180	S	33/45/78	-	Elelt drive, inc Stanton 500 c
Thorens TD-280 IV/UK	200	S	33/45/78	-	Electronic belt drive, AT95E
Thorens TD-166 VI/UK	200	M	33/45	-	Blank armboard, cut to shape,
Thorens TD-166 VI/UK	270	M	33/45	-	Inc TP50 manual arm, AT95E
Thorens TD-166 VI/UK	300	M	33/45	-	With Rega RB250 arm, no cart
Thorens TD-3001BC	630	M	33/45	-	No arm, various armboards avai
Thorens TD-2001	700	S	33/45	-	Includes Thorens TP90 arm, no
Thorens TD-3001/UK	770	M	33/45	-	Suspended , Rega arm no cart
Thorens TD-520	900	S	33/45/78	-	Thorens TP90, pitch control, n
Townshend MkIII Rock	799	M	33/45	-	Headshell end arm damping
Triangle 6/Sumiko	699	M	33/45	17,46,3	with Sumiko arm
Voyd The	1570	M	33/45	51,16,42	Original three-motor model
Voyd 0.5	3368	M	33/45	51,16,42	Upgraded standard Voyd
Voyd Reference	6500	M	33/45	51,16,48	Turntable, polycarbonate platt
VPI HW-19Mk3/PLC	2150	M	33/45	-	External PSU, belt driven
VPI HW-19Mk4/PLC	2950	M	33/45	-	As above, TNT platter/bearing
VPI TNT Junior	3500	M	33/45	-	Poor mans TNT Series 3
VPI TNT Series 3	6000	M	33/45	-	Unique platter and drive
Wilson Benesch	1550	M	33/45	-	High-tech turntable

Model	Price	Type	Output	Int. stylus	Fit	Weight	Special
CARTRIDGES							
Arcam C77	30	MM	4mV	Y	N	-	Conical stylus
Arcam C77MG	40	MM	4mV	Y	N	-	As C77 with metal body
Arcam E77	50	MM	4mV	Y	N	-	Elliptical stylus
Arcam E77MG	60	MM	4mV	Y	N	-	As E77, with metal body
Arcam P77	63	MM	4mV	Y	N	-	'Profile' stylus
Arcam P77MG	73	MM	4mV	Y	N	-	As P77, with metal body
Audio Note Io IIV	1395	MC	-	N	N	-	Silver wired
Audio Note Io Ltd V	2950	MC	-	N	N	-	Needs PSU
Audio Technica AT-91	13	MM	-	Y	N	-	
Audio Technica AT-95E	19	MM	-	Y	N	-	
Audio Technica AT-101EP	20	MM	-	Y	N	-	
Audio Technica AT-110E	24	MM	-	Y	N	-	
Audio Technica AT-420E	40	MM	-	Y	N	-	
Audio Technica AT-450E	62	MM	-	Y	N	-	
Audio Technica AT-OC3	104	MC	-	N	N	-	
Audio Technica AT-OC5	146	MC	-	N	N	-	
Audio Technica AT-OC30	619	MC	-	N	N	-	Nude micro linear stylus
Audio Technica ART-1	944	MC	-	N	N	-	
Audioquest MC5	250	MC	1.4mV	N	N	-	High output MC, line contact
Audioquest 404il	500	MC	0.5mV	N	N	-	Boron cantilever
Audioquest B200L	800	MC	0.5mV	N	N	-	Boron tube cantilever
Audioquest 7000NSX	1295	MC	0.3mV	N	N	-	Boron tube cantilever
Benz-Micro The Glider	600	MC	1mV	N	N	-	
Benz-Micro H200	700	MC	2mV	N	N	-	
Benz-Micro M090	700	MC	0.9mV	N	N	-	
Benz-Micro L040	700	MC	0.4mV	N	N	-	
Benz-Micro MC-3i	850	MC	0.3mV	N	N	-	
Benz-Micro Wood Ref	1100	MC	0.3mV	N	N	-	Bruyere housing
Benz-Micro Ruby Ref	1400	MC	0.3mV	N	N	-	Bruyere housing
Denon DL110	70	MC	-	N	N	-	Elliptical stylus
Denon DL160	90	MC	-	N	N	-	
Denon DL103	100	MC	-	N	N	-	
Denon DL304	200	MC	-	N	N	-	Elliptical stylus
Dynavector 50X MkII	159	MC	-	N	N	-	High output elliptical MC
Dynavector 10X4 MkII	189	MC	-	N	N	-	High output elliptical MC
Dynavector 23RS MkII	375	MC	-	N	N	-	Micro ridge stylus
Dynavector 17D2 MkII	449	MC	-	N	N	-	Micro ridge stylus
Dynavector XX-1L	998	MC	-	N	N	-	Micro ridge stylus
Dynavector XX-1	998	MC	-	N	N	-	High output, line contact MC
Glanz GMC-10LX	69	MC	0.3	Y	N	5	
Glanz GMC 20E	99	MC	0.5	Y	N	6	
Goldring Elan P	17	MM	5.0mV	Y	T	6	T4P version of Elan
Goldring Elan	17	MM	5.0mV	Y	N	4	Rigid body
Goldring Elektra	25	MM	5.0mV	Y	N	4	Elliptical stylus
Goldring 1006	50	MM	6.5mV	Y	N	6	Elliptical stylus
Goldring 1012GX	65	MM	6.5mV	Y	N	6	Gyger II stylus
Goldring 1022GX	85	MM	6.5mV	Y	N	6	Gyger I stylus

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Kiseki Lapis Lazuli	5000	-	-	-	MC, gemstone body

Bartletts HI-FI

NORTH LONDON
175 Holloway Road
Islington
London, N7
Tel: 071 607 2148

WOKING
11 The Broadway
Woking, Surrey,
GU21 5AP
Tel: 0483 771175

Open 9.30am-6pm Monday-Saturday
Demonstrations are available at both Bartletts stores: just call to book your appointment
For Mail Order please call either 071 607 2296 or 071 607 2148 or Fax 071 609 0536

MISSION CYRUS PSX
WAS £299.90
NOW ONLY £149.90

MISSION DAC 5
WAS £299.90
NOW ONLY £149.90

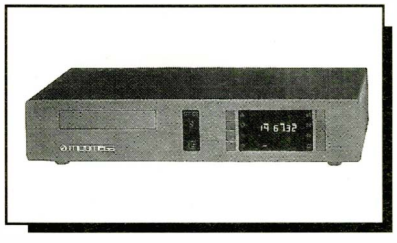
BRING YOUR FILMS TO LIFE
HOME CINEMA
Call Bartletts for a demonstration



AUDIOLAB



CYRUS



micromega

Bartletts Suggested Systems

The Bartletts Suggested Systems listed below are supplied with the Marantz CD 53, an alternative CD player or Turntable is available, see below for price details. All systems are supplied with 8 metres of 79 strand loudspeaker cable. QED 4mm plugs are available at a cost of £1.00 each. Carriage charge for delivery to an address on the UK mainland is £12.00 per order. All items are sent fully insured. Prices were correct at time of printing but are subject to change without notice. All systems come with a 2 year parts & labour guarantee. *E&OE.*

	Celestion 1	Mission 760i Celestion 3 II Mordaunt Short MS 10	Tannoy 603 II Mission 760ise	Mission 761i B&W DM 600i Celestion 5 II Tannoy 605 II Mordaunt Short MS 20	Tannoy 607 II Celestion 7 II Nad 802	Rogers LS 2a2 B&W DM 610i Mission 780	Mission 762i Cerwin-Vega VS 8 Mission 780 SE	Rogers LS 4a2 Tannoy 609 II
Marantz PM 44 SE	378.95	417.96	433.95	456.95	487.95	503.95	518.95	550.95
Nad 302	**355.95**	**394.95**	**409.95**	**433.95**	**464.95**	**479.95**	**495.95**	**526.95**
Nad 304	401.95	440.95	456.95	479.95	511.95	526.95	542.95	573.95
Harman Kardon 6150	**378.95**	**417.95**	**433.95**	**456.95**	**487.95**	**503.95**	**518.95**	**550.95**
Harmon Kardon 1200	480.95	524.95	542.95	568.95	604.95	617.95	630.95	674.95
Technics SUA 600	**378.95**	**417.95**	**433.95**	**456.95**	**487.95**	**503.95**	**518.95**	**550.95**
Pioneer A 300X	401.95	440.95	456.95	479.95	511.95	526.95	542.95	573.95

Options

The following CD players or turntables can be ordered instead of the Marantz CD 53 in the above systems:

CD Players

Denon DCD 595	Deduct	£20.00	Denon DCD 695	Add	Nil	Denon DCD 890	Add	£70.00
Marantz CD 52 IISE	Add	£100.00	Marantz CD 63	Add	£50.00	Nad 501	Deduct	£20.00
Nad 502	Add	£20.00	Sony CDP 711	Add	£50.00	Sony CDP 911	Add	£100.00
Yamaha CDX 470	Add	Nil	Yamaha CDX 570	Add	£45.00	Yamaha CDX 670	Add	£90.00

Turntables

Dual CS 503-2	Deduct	£20.00	Dual CS 505-4	Add	£30.00	Technics SLBD 22	Deduct	£50.00
Thorens TD 280	Add	Nil						

Bartletts

are stockists for:

Aiwa, Arcam, Audiolab, Audio Source, Audio Technica, Aura, B&W, Beyer, Bose, Boston, Cable Talk, Canon, Celestion, Cerwin-Vega, Copland, Creek, Cyrus, Denon, Dual, Epos, Exposure, Harmon Kardon, Marantz, Michell, Micromega, Mission, Moth, NAD, Nakamichi, Panasonic, Pioneer, Polk, ProAc, Quad, Rel, Roberts, Rogers, Rotel, Royd, Ruark, Sennheiser, Sony, Systemdek, Tannoy, Target, TDL, Technics, Thorens, Yamaha

music made live ... music made live ...

PLAY TO WIN

with

Bartletts

OPTIONS

OPTION 1 Get back 15% of your purchase price, which can be used to claim free accessories or loudspeakers of your choice

OPTION 2 Interest free credit on your purchase (minimum balance after deposit £200)

OPTION 3 **?** (For personal callers only!)

And that's not all! In all these options every item costing £200 or more is covered by Bartletts full 3 year parts and labour guarantee.

[Certain restrictions apply to Bartletts Options: Suggested Systems are excluded. Credit is subject to status (written details upon request) Bartletts are licenced credit brokers. E&OE.]

So don't play the fool

Play to win at

Bartletts

music made live ... music made live ...



Key to cartridges.
Price - typical retail, to nearest pound.
Type - MM - moving magnet (output typically 1mV/cm/sec), MC - moving coil (output typically 0.1mV/cm/sec).
Output - in mV/cm/sec
Int. stylus - Y for removable/replaceable styli and N for fixed styli.

Fit - N for normal half inch mountings, T for T4P plug in types.
Weight - in grams.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Output	Int. stylus	Fit	Weight	Special
CARTRIDGES							
Goldring Eroica LX	100	MC	0.5mV	N	N	6	As Eroica, low output
Goldring Eroica	100	MC	2.5	N	N	6	Gyger II stylus
Goldring 1042	105	MM	6.5mV	Y	N	6	Gyger S stylus
Goldring Elite	200	MC	0.5mV	N	N	6	van den Hul, silver wire
Goldring Excel	549	MC	0.5mV	N	N	8	van den Hul I stylus
Goldring Excel GS	599	MC	0.5mV	N	N	8	Gyger S, hand built
Grado ZTE+1	27	MM	-	Y	N	-	Moving flux, high output
Grado ZCE+1	37	MM	-	Y	N	-	Moving flux
Grado Z3E+1	47	MM	-	Y	N	-	Moving flux
Grado ZF1+	82	MM	-	Y	N	-	Moving flux
Grado Signature 8MZ	250	MM	-	Y	N	-	Moving flux
Grado Signature MCZ	375	MM	-	Y	N	-	Moving flux
Grado Signature TLZ	650	MM	-	Y	N	-	Moving flux
Grado Signature XTZ	975	MM	-	Y	N	-	Moving flux
Kiseki Blue GS	499	MC	0.4mV	N	N	8	
Kiseki Purpleheart	749	MC	0.4mV	N	N	11	
Kiseki PHS	899	MC	0.4mV	N	N	8	
Kiseki Blackheart	1995	MC	0.3mV	N	N	11	
Kiseki Lapis Lazuli	5000	MC	0.4mV	N	N	8	Gemstone body
Koetsu Red T	1550	MC	-	N	N	-	High-output MC
Koetsu Red K Sig	1998	MC	-	N	N	-	Selected, re-tuned Red T
Koetsu Urushi	2200	MC	-	N	N	-	Metal alloy body
Koetsu Signature	3218	MC	-	N	N	-	Rosewood body
Linn K5	54	MM	4.5mm	Y	N	-	
Linn K9	109	MM	4.5mm	Y	N	-	
Linn K18/II	197	MM	4.5mV	Y	-	-	Metal body
Linn Klyde	449	MC	150uV	N	N	-	Alloy body
Linn Arkiv	998	MC	150uV	N	N	-	Three point mt, machined body
London Decca Maroon	199	MM	5.0mV	N	N	8	Original mounting
London Decca Gold	239	MM	5.0mV	N	N	8	Elliptical stylus
London Decca Maroon Dp	259	MM	5.0mV	N	N	10	Deccapod mounting
London Decca Gold Dpd	299	MM	5.0mV	N	N	5	Elliptical stylus, Deccapod
London Decca S Gold	339	MM	5.0mV	N	N	7	Original mounting
London Decca S Gold Dp	399	MM	5.0mV	N	N	10	Deccapod mounting
London Decca Jubilee	999	MM	5.0mV	N	N	5	0.5 inch mounting
Lyra Lydian	649	MC	-	Y	N	-	
Lyra Clavis	1298	MC	-	Y	N	-	
Lyra Parnassus	1995	MC	-	Y	N	-	
Milltek Aurora	299	MC	2.0mV	N	N	9.5	High output MC
Milltek Olympia	399	MC	2.0mV	N	N	9.5	As Aurora, sapphire cantilever
Nagaoka MP-11	24	MM	-	Y	N	-	Elliptical stylus
Nagaoka TS11	70	MM	-	Y	N	-	Line contact stylus
Nagaoka TS12 Boron	80	MM	-	Y	N	-	As MP-11, with boron cantileve
N'ham Tracer I	98	MM	-	-	-	-	
N'ham Tracer II	175	MM	-	-	-	-	
N'ham Tracer III	350	MM	-	-	-	-	
N'ham Tracer IV	550	MM	-	-	N	-	
Ortofon OMP-5E	16	MC	-	Y	T	-	
Ortofon OM-5E	16	MM	-	Y	N	-	
Ortofon OM3E/U	20	MM	-	Y	-	-	With headshell
Ortofon OM3E/U	20	MM	-	Y	N	-	
Ortofon OM3E/S	20	MM	-	Y	-	-	With headshell
Ortofon OM Pro S	21	MM	-	Y	N	-	Budget disco cartridge
Ortofon OM10 Super	25	MM	-	Y	N	-	Elliptical stylus
Ortofon Night Club	32	MM	-	Y	N	-	Spherical stylus
Ortofon 510	32	MM	-	Y	N	-	
Ortofon Night Club	37	MM	-	Y	N	-	Elliptical stylus
Ortofon Concord Pro	40	MM	-	Y	N	-	For professional use
Ortofon Concord NC	55	MM	-	Y	N	-	Professional, spherical stylus
Ortofon 520P	55	MM	-	Y	N	-	
Ortofon 520	55	MM	-	Y	N	-	Elliptical stylus
Ortofon OM20 Super	60	MM	-	Y	N	-	
Ortofon MC1 Turbo	60	MC	-	Y	N	-	
Ortofon Concord NC	60	MM	-	Y	N	-	Spherical version of Concord
Ortofon OM30 Super	80	MM	-	Y	N	-	Fine line stylus
Ortofon MC10 Super	85	MC	-	N	N	-	
Ortofon 530P	85	MM	-	Y	T	-	
Ortofon 530	85	MM	-	Y	N	-	Elliptical stylus
Ortofon Quartz	110	MC	-	N	N	-	High output MC cartridge
Ortofon MC3 Turbo	110	MC	-	N	N	-	
Ortofon MC15 Super II	110	MC	-	N	N	-	
Ortofon 540	110	MM	-	Y	N	-	
Ortofon Quasar	350	MC	-	N	N	-	High-output elliptcal MC

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Kiseki Lapis Lazuli	5000	-	-	-	MC, gemstone body



Key to cartridges.
Price - typical retail, to nearest pound.
Type - MM - moving magnet (output typically 1mV/cm/sec), MC - moving coil (output typically 0.1mV/cm/sec).
Output - in mV/cm/sec
Int. stylus - Y for removable/replaceable styli and N for fixed styli.

Fit - N for normal half inch mountings, T for T4P plug in types.
Weight - in grams.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Output	Int. stylus	Fit	Weight	Special
CARTRIDGES							
Ortofon MC2000II	650	MC	-	N	N	-	
Ortofon MC3000II	950	MC	-	N	N	-	'Replicant' stylus
Ortofon MC5000	1500	MC	-	N	N	-	Sapphire cantilever
Ortofon MC7500	2000	MC	-	N	N	-	75th Anniversary model
Pickering TE-15	20	MM	-	Y	N	-	Tracks 1.5gm
Pickering VE-15	25	MM	-	Y	N	-	Tracks 1 - 3gms
Pickering T-E	25	MM	-	Y	T	-	Elliptical
Pickering V15-DJ	28	MM	-	Y	N	-	Disco model
Pickering TL-E	35	MM	-	Y	T	-	
Pickering XV15-350C	40	MM	-	Y	N	-	Conical stylus
Pickering TL-2E	45	MM	-	Y	T	-	
Pickering XV15-625E	50	MM	-	Y	N	-	
Pickering XV15-150-DJ	50	MM	-	Y	N	-	Professional cartridge
Pickering TL-2-S	55	MM	-	Y	N	-	Line contact stylus
Pickering XV15-757S	60	MM	-	Y	N	-	Line contact stylus
Pickering XV15-625DJ	60	MM	-	Y	N	-	Broadcast cartridge
Pickering XV15-1800S	70	MM	-	Y	N	-	Line contact stylus
Pickering TL3S	80	MM	-	Y	T	-	
Pickering XEV-3001E	95	MM	-	Y	N	-	Elliptical stylus
Pickering XLZ-3500	100	MM	-	Y	N	-	
Pickering TL-4-S	100	MM	-	Y	T	-	
Pickering TL-3003	145	MM	-	Y	T	-	
Pickering XLZ-4500	150	MM	-	Y	N	-	Line contact
Pickering TL-4004	175	MM	-	Y	T	-	
Pickering XSV-5000U	200	MM	-	Y	N	-	High output
Pickering XLZ-7500	200	MM	-	Y	N	-	Hybrid, low impedence
Pickering TLZ-7500-S	200	MM	-	Y	T	-	
Rega Bias	34	MM	-	-	N	-	
Rega 78	34	MM	-	-	N	-	for 78rpm records
Rega Super Bias	52	MM	-	-	N	-	
Rega Elys	74	MM	-	-	N	-	
Roksan Corus Black	130	MM	-	Y	N	-	
Roksan Shiraz	800	MM	-	N	N	-	
Shure ME70B	18	MM	6mV	Y	N	-	Conical stylus
Shure M92E	22	MM	5mV	Y	-	-	Dual T4P & normal fit
Shure SC35C	28	MM	5mV	Y	N	-	For broadcast use
Shure M44C	33	MM	9mV	Y	N	-	Professional, spherical stylus
Shure M44-7	33	MM	9mV	Y	N	-	Professional, spherical stylus
Shure M44G	35	MM	6mV	Y	N	-	Professional, spherical stylus
Shure ME95ED	38	MM	5mV	Y	N	-	Elliptical stylus
Shure M55E	42	MM	6mV	Y	N	-	Professional, spherical stylus
Shure M104E	44	MM	5mV	Y	-	-	DualT4P & normal fit
Shure ME97HE	60	MM	4mV	Y	N	-	Hyper elliptical stylus
Shure M110HE	74	MM	4mV	Y	-	-	Dual T4P & normal fit
Shure V15V-MR	265	MM	3mV	Y	N	-	Micro ridge stylus
Stanton 500EL	34	MM	-	Y	N	-	Elliptical stylus
Stanton 500AL II	34	MM	-	Y	N	-	Spherical stylus
Stanton 680AL/X	50	MM	-	Y	N	-	Spherical stylus
Stanton 680EL/X	56	MM	-	Y	N	-	Elliptical stylus
Stanton 890AL/X	82	MM	-	Y	N	-	Professional cartridge
Sumiko Oyster	30	MM	-	Y	N	-	
Sumiko Black Pearl	50	MM	-	Y	N	-	
Sumiko Pearl	70	MM	-	Y	N	-	
Sumiko Blue Point	100	MC	-	N	N	-	High output MC
Sumiko BPS	250	MC	-	N	N	-	Nude stylus
Transfiguration AF-1 Mk II	1595	MC	230uV	N	N	-	MC, transformer & preamp
Transfiguration Supreme	1995	MC	200uV	N	N		Yokeless ring magnet system
van den Hul MM-1	275	MM	-	-	N	-	
van den Hul MM-2	325	MM	-	-	N	-	
van den Hul DDT-II	675	MC	-	N	N	-	Silver coils
van den Hul MC-10	775	MC	-	N	N	-	Silver coils
van den Hul MC-One	975	MC	-	N	N	-	Selected version of MC-10
van den Hul MC-One/Hi	1100	MC	-	N	N	-	High output version of MC-10
van den Hul MC-Two	1300	MC	-	N	N	-	As MC-One/Hi, higher output
vdH Grasshopper III	2300	MC	-	N	N	-	
vdH Grasshopper III	2300	MC	-	N	N	-	
vdH Grasshopper III	2950	MC	-	N	N	-	
vdH Grasshopper III	3200	MC	-	N	N	-	
vdH Grasshopper III	3200	-	-	N	N	-	
vdH Grasshopper III	3500	MC	-	N	N	-	
Virtual Reality Aciore	199	MC	-	N	N		
Virtual Reality Etile	299	MC	-	N	N		
Virtual Reality Lexe	899	MC	-	N	N		

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see page 123.

Kiseki Lapis Lazuli	5000	-	-	-	MC, gemstone body



Key to tonearms
Price - typical retail to the nearest pound
Type - F - fixed armtube/headshell, A - interchangeable armtube, H - interchangeable headshell.
Base type - S - SME fit, L - Linn/Alphason fit, P - proprietary fit.
Effective length - from pivot point to headshell in millimetres.

Weight range - the range of cartridge masses that the arm can accept in grams.
Special - characteristics of the arm.

Products highlighted in red have been tested in *Hi-Fi Choice*. Please refer to The Directory on page 123 for full test results.

Model	Price	Type	Base type	Effective len	Wt. range	Special
ARMS						
Air Tangent Tangent 10B	8000	-	-	-	-	Air-bearing
Air Tan Tangent Ref. Sig.	10000	-	-	-	-	Remote version of above
Alphason Xenon	286	F	L	229	3-20	1-piece titanium armtube
Alphason Xenon MCS	370	F	L	229	3-20	vdH silver wiring
Alphason HR100S	490	F	L	229	3-20	Superior quality bearing
Alphason HR100S MCS	550	F	L	229	3-20	vdH silver, top bearings
Audiomeca SL5	1999	-	-	-	-	Parallel tracking
Decca LI Arm	49	H	L	212	5-12	Damped
Decca LIR Arm	99	H	L	212	5-12	Rewired version of LI
Dynavector 507	1400	-	-	-	-	Biaxial design
Graham 1.5T	2550	-	S	-	-	SME base, unipivot
Helius Orion 3 S1 Copper	395	P	P	254	-	
Helius Orion 3 S1 Silver	515	P	P	254	-	
Helius Orion 3 S2 Copper	575	P	P	254	-	Bi-metal tube
Helius Orion 3 S2 Silver	695	P	P	254	-	Bi-metal tube
Helius Cyalene 2	1395	P	P	254	-	Silver wired, pivoted
Kuzma Stogi	600	-	-	-	-	Effective mass 13gm
Kuzma Stogi Ref	1000	-	-	-	-	Effective mass 12.5gm
Linn Akito	209	F	L	229	-	Statically balanced
Linn Ekos	1297	F	L	229	-	Dynamically balanced
Manticore Musician	320	F	L	230	-	
Manticore Magician	650	F	L	230	-	Polished armtube finish
Manticore Magician	720	F	L	305	-	Polished armtube finish
Moth Arm	95	-	-	-	-	Rebadged Rega RB250
Moth Mk III	146	-	-	-	-	Rebadged Rega RB300
Naim ARO	794	-	-	-	-	Unipivot
N'ham Space	350	-	-	-	-	Optional silver wiring, unipiv
N'ham Mentor	750	-	-	-	-	Silver wiring, unipiv
N'ham Alien	1200	-	-	-	-	Graphite tube, unipivot
Rega RB250	95	F	R	237	-	Scaled down RB300
Rega RB300	139	F	R	237	-	Pivoted arm
Roksan Tabriz ZI	330	-	-	-	-	'Intellligent' counterweight
Roksan Artemiz	690	F	-	-	-	Flagship arm
SME Series IIIS	230	A	S	233	0-12	Economy version of Series III
SME 3009 Ser II Imp	255	F	S	231	3-7	Fixed headshell, low mass
SME 3009 S2 Ser II Imp	278	H	S	231	3-8	Detachable headshell, medium m
SME Series III	320	A	S	233	0-13	Ultra-low mass for hi-complian
SME Series II 3009-R	424	H	S	233	0-28	Heavier version of Ser II S2 I
SME Series II 3010-R	434	H	S	239	0-25	Detachable headshell, 10 inch
SME Series II 3012-R	466	H	S	308	0-25	Detachable headshell, 12 inch
SME Series 300-309	568	H	S	232	6-17	Ser V derivative with detach h
SME Series 300-310	581	H	S	238	6-17	10 inch (nom) version of 300-3
SME Series 300-312	661	H	S	308	5-14	12 inch (nom) version of 300-3
SME Series IV	827	F	S	233	5-16	Economy version of Series V
SME Series V	1232	F	S	233	0-14	Flagship model
Townshend Excalibur	799	F	P	220	3-14	Outrigger headshell damping
Wheaton Tri-Planar 4	2750	-	-	-	-	With terminal box
Wheaton Tri-Planar 4C	3000	-	-	-	-	As above with Cardas cable
Wilson Benesch ACT1	975	-	-	-	-	Carbon-fibre armtube, unipivot
Zeta	469	-	-	-	-	Pivoted
Zeta	555	-	-	-	-	Pivoted, vdH wired

The information contained in the Hi-Fi Choice Buyer's Guide is supplied either by manufacturers or by distributors. Each month we contact all companies to ensure that the data is as accurate and up-to-date as possible. However, prices and specifications are subject to change due to circumstances beyond our control.

Please let us know if you spot any omissions or errors in the Buyer's Guide.

Listings marked in red (as shown below) are covered in the *Hi-Fi Choice* Directory, see p123.

SME Series V	1232	F	S	233	0-14	Flagship model

hi Quality equipment at sensible prices if

Roksan M1 monoblocks	mint s/h	£1995
Aragon 2004 pwr amp	mint s/h	£695
Audio Inn 2nd (2A3, 82)	mint s/h	£1595
Audio Research D240 MkII	mint s/h	£1795
Audion 300B (Silver Knights)	mint s/h	£1595
Albarry 40B monoblocks	mint s/h	£495
Manley 350 monoblocks	mint s/h	£2995
Musical Fidelity F15/F22	mint s/h	£1995
Roksan L2/S1 pre pwr	mint s/h	£995
Conrad Johnson Prem 10/11	as new	£5500
Muscial Fidelity P370 MkII	mint s/h	£1195
Threshold S150 pwr amp	mint s/h	£995
Krell KMA 100 MkII	mint s/h	£1995
Naim 52/135/CDS/SBL's		poa
Krell KSA 80	mint s/h	£1695
Audio Research LS5	as new	£3500
Audio Reserach SP15 Mk II	mint s/h	£3500
Pink Triangle P.P II + bat psu	mint s/h	£1495
Copeland 301 pre	as new	£850
Audio Innovations L2 pre	mint s/h	£495
Audio Innovations P2 phono	mint s/h	£495
NRG PA1 pre amp	mint s/h	£3500
Sony TA-E 88 pre amp	vgc	£300
Tesserac TALA pre amp	x-demo	£995
Tesserac TAADA phono mm/mc	x-demo	£995
Triology 902 pre amp	as new	£895
Audio Research SP9	mint s/h	£895
Linn Kairn	mint s/h	£895
Mark Levinson No 26S	mint s/h	£4500
Gryphon Limited Edition	mint s/h	£3500
Jadis Defy 30	mint s/h	£1895
Counterpoint SA11	mint s/h	£3500
Meridian D600 B	as new	£1995
Inifinity IRS Beta	mint s/h	£4995
Sonus Faber Electra + stnds	mint s/h	£1195
Apogee Diva & Dax	mint s/h	£3900
Martin Logan Quest	mint s/h	£2800
Wilson Watts 3 Puppie 2	as new	£7500
Magneplanar 1.4	as new	£795
Quad ESL 63 + Gradient s/w	mint s/h	£2850
Kef 107.2 + Kube	as new	£1795
Apogee Duetta	mint s/h	£895
Monitor Audio ST10	mint s/h	£650
M.T.D. Tug + stnds	x-demo	£1800
Snell E's + Pirate stnds	mint s/h	£850
B & W 802	as new	£1995
Linn Keilihs + stnds	as new	£550
Counterpoint DA10/11E u/a	as new	£2995
Wadia 7 + 9 tran/dac	mint s/h	£15,995
Wadia 2000 tran/dac	mint s/h	£4995
Micromega Trio	mint s/h	£2500
EAD T7000 Mk II tran/dac	mint s/h	£3000
Mark Levinson No 30/31	mint s/h	£15,500
Micromega CD3 + duo bs	mint s/h	£995
Krell MDI, SPB64 tran/dac	mint s/h	£5995
Roksan ROK DPI	mint s/h	£695
Roksan Attessa	mint s/h	£795
Micromega Solo	mint s/h	£895
Wadia X64 dac	mint s/h	£2495
Meridian 500 tran	as new	£695
Roksan TMS/Artemis/DS4	as new	£2750
Voyd Valdi/LVII	mint s/h	£550
Rega RB 300	as new	£80
Koetsu Black (new cant + tip)	mint s/h	£350
Van den Hul MCi	mint s/h	£550
Ortofon MC3000/T3000	as new	£795
LFD phono stage	mint s/h	£595
Koetsu Red	mint s/h	£495
Audio Note I/O	as new	£995

Are you buying or selling Quality Hi-Fi?
Then call now and ask about "The Hi-Fi Exchange"

mint s/h – secondhand, as good an example as we've seen anywhere
as new – typically less than 4 months old, in new condition
x-demo – typically 'as new', but may be older
v.g.c./g.c. – in perfect working condition, but may be marked

hi CHOICE if
081 568 8808
Equipment bought or part exchanged.
Full demonstration facility by appointment.
Major credit cards are accepted. 9.30am to 8.00pm, 7 days

MUSICAL IMAGES

45 HIGH STREET
HOUNSLOW
MIDDLESEX TW3 1RH
TEL: (081) 569 5802
FAX: (081) 569 6353

10 MIN FROM HEATHROW



MUSICAL IMAGES

173 STATION ROAD
EDGWARE
MIDDLESEX HA8 7JX
TEL: (081) 952 5535
FAX: (081) 951 5864

NTH/NW LONDON

Main Authorised Dealers for:

- Acoustic Energy
- Adcom
- Aiwa
- Akai
- AKG
- Alchemist (Kraken)
- Alphason
- Arcam
- Audio Alchemy
- Audio Innovations
- Audioquest
- Audio Technica
- Aura
- B & W
- Banbridge Accessories
- Bang & Olufsen
- Beyer Dynamic
- Bose
- Boston
- Cable Talk
- Canon
- Castle
- CDi Software
- Celestion
- Cerwin Vega
- Chord
- Creek
- DPA
- Denon
- Dual
- Fosgate
- Gemini/Kam
- Goldring
- Harman Kardon
- Heco
- Heybrook
- Infinity
- Ixos
- Jamo
- JBL
- JPW
- JVC
- KEF
- Kenwood
- Laser Discs
- Macintosh
- Marantz
- Maxell
- Michell

PART EXCHANGE

DEMO ROOMS

CLAIM FREE GOODS WORTH £40 WHEN YOU SPEND £300
NOT WITH ANY OTHER OFFER

0% APR
INTEREST FREE CREDIT
☎ (081) 569 5802

NEW

WHY WAIT, BUY NOW WITH MUSICAL IMAGES SPECIAL

1. *Decide what you want to buy*
2. *Decide what you want to pay per month*
3. *Ask if it can be done on*

0% APR INTEREST FREE CREDIT

ANYWHERE IN UK ASK FOR DETAILS

MAIL ORDER WORLDWIDE

WE ARE OPEN SUNDAYS

HOME CINEMA SPECIALISTS
INSTALLATION SERVICE AVAIABLE

PAY AS LITTLE AS
£30 PER MONTH
FOR A £500 SYSTEM
SUBJECT TO STATUS
FROM ANYWHERE IN UK

Audio/Visual Systems from £300 to £1200 PAY ONLY
£40 PER MONTH

Home Cinema System worth £2000 PAY ONLY
£75 PER MONTH

Audio/Visual System worth £4000 PAY ONLY
£125 PER MONTH

INTEREST *FREE* CREDIT
ASK FOR DETAILS, SUBJECT TO STATUS

Main Authorised Dealers for:

- Micromega
- Mission
- Mitsubishi
- Monitor Audio
- Monster
- Mordaunt-Short
- NAD
- Nakamichi
- Nintendo
- Orelle
- Ortofon
- Panasonic
- Philips
- Pink Triangle
- Pioneer
- Polk
- Project Turntable
- QED
- Quad
- REL
- Rogers
- Roksan
- Rotel
- Royd
- Ruark
- Scotch/3M
- Sega
- Sennheiser
- Shure
- SME
- Sony
- Soundstyle
- Spendor
- Stax
- Systemdek
- Tannoy Prestige
- Target
- Teac
- Technics
- TDK
- Thorens
- Toshiba
- Van Den Hul
- Wharfedale
- Yamaha
- and Many More

E. & O.E.

The DIRECTORY



The original and best review based hi-fi guide

This is the legendary Directory, the second part of the new look Hi-Fi Choice Buyer's Guide, based entirely on comprehensive technical and subjective reviews. Each entry carries the weight of our exhaustive test procedures and should be read in conjunction with the prices and specifications given in our index starting on page 87.

The *Hi-Fi Choice Directory* was conceived as a reference guide to all the audio products reviewed by *Choice* that are currently available. The products are split into categories, each with its own introduction containing information about the product type and its applications. They are particularly relevant to the uninitiated first time buyer and help sort out the order of priorities when buying a piece of equipment.

Each product along with its current retail price is placed in its respective category in alphabetical order. The prices of the products are updated on a regular basis, although it should be noted that our value ratings are based on the product's price at the time of review.

Sound quality

This column contains the ratings for the standard achieved in our listening tests. The sound quality ratings range from Poor to Excellent. Their meaning and order are as follows:

P	Poor
A-	Average-
A	Average
A+	Average+
G-	Good-
G	Good
G+	Good+
VG	Very Good
E	Excellent

With P being the worst and E the best rating within a section.

One important point to remember is that these cannot be used to compare products from different categories. For example, a cassette deck rated Excellent in sound quality will not usually offer the same standard of fidelity as a similarly rated turntable or CD player. Unless you have first generation masters of course.

Comments

The Comments column contains a potted summary based on the original review, emphasising the salient points of a product's character and sonic performance. The space available doesn't allow for great detail but we have attempted to put across the essence of the review. Obviously, important information on compatibility or auxiliary equipment used in the test cannot be included, and we would advise you to refer to the original review for this.

Please note that these comments are those of our own reviewers and not, as is the case with some magazines, those of the manufacturer.

Features

Product features are shown with a combination of figures and blob charts, with headings at the top of each column indicating the appropriate category, a blob indicating the existence of a particular feature.

There are different headings for each section and the more complicated categories are explained in the individual introductions. Where figures are used the unit of measurement is shown in the heading.

Back issues

The final column refers to the issue of *Hi-Fi Choice* which featured the complete review.

Finding that component

Before you shop, follow our top eight tips for better buying:

1. Check out the components' recommended retail prices in the *Directory*.
2. Find out as much as you can about the products you want by reading *Hi-Fi Choice*'s reviews and lab tests.
3. Visit local dealers that stock some of the brands you want to hear and try to find one that seems sympathetic to your needs.
4. Don't discount a dealer's suggestions just because the products don't have rave reviews.
5. Take your own software (records, CDs, tapes) along for a demonstration of the equipment that the dealer recommends.
6. Listen at the sort of volume you would normally use at home — systems often sound more impressive when played loud.
7. If you are unsure about something or want to hear an alternative, just ask.
8. Audition a system for a reasonable amount of time, say three quarters of an hour or so, before making a decision.

How to use this guide

Perhaps the most influential symbols in the *Directory* are the little red triangles ▲ found in the value column at the beginning of each entry where appropriate.

Products that make the grade are awarded the Best Buy or Recommended accolade.

▲▲ A product carrying the Best Buy swingtag is of excellent quality and good value for money in its price category.

▲ Recommended products are runners up, but still definitely worth considering within their price bands.

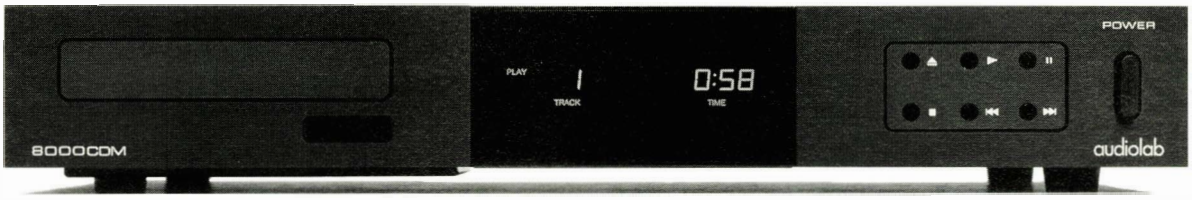
Please note however, that an expensive Recommended product will nearly always sound better than an inexpensive Best Buy.

An ideal situation would be to choose suitably priced ▲▲ Best Buy or ▲ Recommended products from relevant categories and create a Best Buy system. However, due to the variety in tonal balance that exists in many audio products, and differences in taste, system building is unfortunately not that simple. These ratings make a useful guideline for shortlisting components, but only experiencing the actual combination will tell you whether it works for you.

Index

Amplifiers	123
AV amplifiers	126
Cables	127
Cassette decks	132
CD players	133
CD transports	135
DACs	135
DAT players	137
Headphones	137
Loudspeakers	139
Stack systems	147
Tuners	147
Turntables - Cartridges	149
Turntables - Integrated	151
Motor units	151
Tonearms	151

The new Audiolab 8000CDM Compact Disc Transport



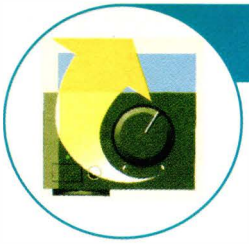
The Audiolab product range:

8000A Integrated Amplifier
8000C Pre-amplifier
8000PPA Phono Pre-amplifier
8000P Stereo Power Amplifier
8000T FM/AM Tuner
8000M Monobloc Power Amplifier
8000DAC Digital-analogue Convertor
8000CDM Compact Disc Transport



AUDIOLAB

Cambridge Systems Technology Limited, Spitfire Close, Ermine Business Park, Huntingdon, Cambs. PE18 6XY. Tel 0480 52521



Amplifiers

The amplifier sits at the heart of the system, processing the outputs from all the various music sources as necessary and then driving the loudspeakers. These two (quite separate) functions are integrated into a single box at the low-to-middle price points; separated pre- and power amplifiers, even separate power supplies, become increasingly common as one moves upmarket. At the upper end of the specialist market, valve amplifiers provide a popular alternative to the transistor types amongst enthusiasts.

There is a substantial difference between specialist (sound quality oriented) amplifiers and the consumer electronics style models. The former are bleakly simple, avoiding all unnecessary features to provide the most direct signal path in the interests of best sound quality. The latter range from models with just basic tone controls and tape recorder switching, to those with elaborate facilities such as graphic equalisers, remote control (including volume), surround sound options etc. etc.

We include our measured power output (RMS, 8ohm load, 1 channel driven) – but again, paradoxically, this doesn't necessarily correspond to the loudness capability of the amplifier, which has as much to do with the elegance of the overload characteristics within a given system (valve amplifiers invariably sound more powerful than their rating would suggest).

Apart from output the facilities listing shows how many line (that is inputs besides those for phono cartridges) inputs a product has and includes tape inputs. The MM and MC blobs indicate which types of cartridge can be accomodated. Integrated, preamp and power amp indicate the type of amplifier reviewed, and in some instances that a pre/power combination has been tested. In such instances the price given is for both components. The remote control and headphone socket blobs indicate the existence of these facilities.

Amplifiers

Product	£Price		Comments	Output W/8Ω	Line inputs	MM	Integrated	MC	Preamp	Power amp	Remote control	Headphone socket	Issue No.
Adcom GFP-555II/GFA-535II	850	A+	Technically proficient pre/power saddled with a slightly hard and unsympathetic sound.	94	6	•			•	•		•	124
▲ Albarry AP4/S508	850	A-	A disappointing sound from a pre/power amp that's hamstrung by a variety of technical oversights. Albarry has done better.	46	4	•			•	•			116
▲ Albarry PP1	430	G+	Available with or without various MM/MC options, the 'basic' PP1 has an attractively warm, earthy sound.	48	4				•				104
Alchemist Kraken	310	A	Class-A objet d'art that's far too sensitive to RF interference. Can sound cold and fierce as a result.	54	5	•	•		•				116
▲ Alchemist Kraken APD7/APD8	775	G	A quirky Class A number with an equally warm and colourful sound. Hardly accurate but entertaining nonetheless.	49	4	•			•	•			124
AMC CVT3030	529	A	A well meaning and affordable attempt to mix transistors with valves, albeit one that only really shines with simple musical styles.	35	5	•			•				116
▲ Arcam Alpha 6	300	VG	A new MOSFET design with a subtle and melodic sound that takes a conservative view of powerful dynamics	68	6	•	•		•				129
▲ Arcam Delta 110S/120.2	1070	VG	Now in mkII guise this established combination has matured into a very articulate, powerful if dry-sounding amplifier.	109	4	•	•			•	•	•	124
▲ Arcam Delta 290	450	VG	Combines the dryness and restraint of Arcam's older models with a refreshing sense of detail, dynamics and musical colour.	99	5	•	•		•			•	116
▲ Art Audio Quintet	1156	VG	Switchable triode/ultralinear output stage. In triode mode these are 15 of the sweetest watts around. Surprisingly gutsy	15/25						•			109
Audio Innovations Series 200	850	G	Turns in a fuller and more substantial performance via MM rather than CD. Otherwise its sound can seem slightly bleached.	10	5	•				•	•		109
▲ Audio Innovations Series 300II	500	G+	Under-powered and over-distorted yet capable of realising an open and captivatingly expressive sound. Sensitive speakers are a must	9	4	•			•				97
▲ Audio Innovations Classic 25	699	G+	Warm, cuddly and immensely musical kit amp that almost transcends 'hi-fi' with its sheer listenability	24	5				•				126
▲ Audio Innovations Series 700	999	G+	Valve amp that can turn the roughest of digital sounds into music, both understated and graceful. Sensitive speakers are a must	24	5				•				116
▲ Audio Note Oto SE	1500	VG	Transparent, very dynamic, excellent clarity and subtlety with limited power make for a very clean sounding amp	9.5	3	•			•				126
▲ Audio Note Ongaku	43125	E	A single ended, zero negative feedback, triode, line level integrated amp and a half. Probably the best amplifier in the world!	27	6				•				Col
▲ Audiogram MB1	500	G+	It'll successfully tackle the most difficult of speakers and still provide a very warm, rich and euphonic sound.	46		•			•			•	116
▲ Audiolab 8000A	450	VG	Recent updates have maintained its competitiveness with a thoroughly refined, consistent and very disciplined sound.	80	5	•	•		•			•	129
Audiolab 8000C/8000P	1100	G	Very distinctive, almost stark neutrality that will not appeal to all listeners. Good value engineering, nevertheless	157	7	•	•			•	•	•	97
▲ Aura VA-100 Evolution	300	G+	Might overheat when driving insensitive, low-impedance speakers but was applauded for its sense of scale and drama via CD	81	5	•			•			•	109
▲ Aura VA-50	250	VG	Superficially similar to the cheaper VA-40 but with much more of the old MA-80's magic! Great sound from a slimline package	65	5	•			•			•	97
▲ Beard Audio CA35/P35mkII	2390	VG	Good build quality and finish and a characteristic valve sound make a first class amplifier capable of great musical enjoyment	35	4	•	•			•	•	•	63
Beard CA506	1695	G+	A versatile valve preamp, the bass sounded lively if a touch softened, while the treble was detailed but lacked a little sparkle		4	•	•			•			50
▲ Conrad-Johnson PV-10A	1250	E	Fabulous preamplifier. Beautiful imaging, superb detail, plenty of gain on the phono stage; classy build quality too.		4	•				•			78
▲ Conrad-Johnson Premier 7	11000	E	The 'Seven is designed without compromise, and is clearly one of the finest (valve) preamplifiers money can buy.		4	•	•			•			Col
▲ Denon PMA-250III	160	A-	Pretty high resolution for the price, occasionally looses its grip but is generally engaging and enjoyable	55	3	•			•			•	121
▲▲ Denon PMA-450	250	G+	Denon's latest integrated amp swept the board with its big, brassy if somewhat extravagant sound.	99	5	•			•			•	116
▲ DPA Digital DSP-200S/DPA-200S	1245	E	The very dramatic but exceptionally detailed and transparent sound of this combination belies its modest power rating.	48	5					•	•		124
▲ EAR 802/509mkII	4200	VG	Extremely well made and combining the sonic strengths of both transistors and valves this EAR combo warrants attention	100	6	•				•	•		63
EMF Audio Sequel	349	G+	A fresh start for Mike Creek has resulted in the Sequel, a minimalist amp with a very refined but mildly restrained sound	47	4	•			•			•	109
Exposure XX	625	A	Line only integrated with good sense of timing but limited hf extension. Likely to be very system dependent.	43	4				•				121
▲ Harman Kardon HK1400	400	G+	HK's first line-only amplifier exudes a relaxed but confident sound that is only troubled by the most dense of recordings.	52	7				•				129
▲ Harman Kardon HK6250	280	G+	Heavily based on the cheaper HK6150, this version offers slightly more power with a similarly gutsy and expressive sound	51	5	•			•			•	116
Harman Kardon HK6550	430	A-	Follow up to 6500 is disappointing with grainy hf and limited depth. Quite powerful but ultimately not up to the mark	69	6	•	•		•			•	121
Harman Kardon HK6850	900	G	This monster is derived from the HK6800 with a similarly deep and powerful sound but a rather steep price tag	101	6	•	•		•			•	109
▲ Heybrook Signature	2297	G+	A stunningly powerful and vivid-sounding combination which is equally impressive via vinyl or CD	148	4	•	•			•	•		109
▲ Jadis JP30/JA30	12204	E	French tubes. Beautiful build, nostalgic styling and delightful sounding midrange transcend limitations at frequency extremes	30	4	•				•	•		60
JVC AX-A342	170	A	A value-conscious budget amp offering plenty of power but a slightly untidy and inconsistent sound	77	5	•			•			•	109
JVC AX-R562	250	A-	More fuss and bluster than detail and dynamics was how one listener concisely described this less than wonderful model	90	5	•			•			•	121
▲ JVC AX-Z1010	650	G+	One of the best behemoths: a big amp with a big, boppy and unmuddled sound and a couple of ancient 16-bit DACs for good measure!	124	6	•	•		•			•	109
▲▲ Kenwood KA-3020	170	G+	An unassuming little amplifier that turns in a remarkably balanced and entertaining sound. Lively, detailed and engaging	66	5	•			•				97
Kenwood KA-4050R	280	A-	Respectable but ultimately uninspiring model whose remote control is its main asset.	85	5	•	•		•			•	121
Kenwood KA-5050R	350	A	A listenable but neither particularly communicative or captivating amplifier that puts features ahead of sound.	103	6	•	•		•			•	129
▲ Lecson Quattra	420	G	Underpowered but with the flexibility of four independent power amps. Very deep, captivating sound with 3D soundstaging.	40	5	•	•		•				92
Linn Majik-I	593	A	The cornerstone of Linn's modular hi-fi system has many innovations to its credit but its sound is vague and confused.	33	6	•			•			•	129
▲ Magnum Class A	599	G+	Lashings of rich and compelling music, trading a hint of lushness for stark accuracy. An unexpected find. Phono stage option	55	7				•				116
Magnum Quartet	329	A-	An integrated model that incorporates four monobloks optimised for bi-wiring, but sound is sandy in the treble.	72	5				•			•	121

Amplifiers continued

Product	£Price		Comments	Output W/8Ω	Line inputs	MM	MC	Integrated	Preamp	Power amp	Remote control	Headphone socket	Issue No.
▲ Marantz PM-52SE	300	G+	The SE premium pays for a degree of fluency that draws you into the music and keeps you there. Rather nice	95	6	•	•	•				•	121
Marantz PM-80mkII	480	G-	Less the revision and more an entirely new amp, this model sounds at its sweetest and most agreeable in the 31W Class A setting.	130	5	•	•	•				•	129
▲ Moth Series 30	587	G+	A modular system capable of cracking results. The passive preamp and power amp combination warrant a Best Buy in their own right.	35	4	•	•		•	•			109
▲ Musical Fidelity Preamp/Typhoon	568	G+	A combination that plays everything close to its chest but bridge the power amp and you'll witness an explosion of detail.	62	6				•	•			116
▲▲ NAD 302	170	G+	A spritely and uplifting performance. Sounds loud but never intrusive or fatiguing.	39	5	•		•				•	116
▲▲ NAD 304	230	G+	Equally effective with CD and vinyl this is another successful and entertaining NAD amplifier for your shortlist	50	6	•		•				•	121
NAD 1000S/208	1120	A+	One of the beefiest amplifiers we've ever tested. Unfortunately it sounds too restrained and lightweight.	314	5	•	•		•	•		•	124
▲ Nakamichi IA-3	350	G	A minimalist outing for the cassette heroes that's very confident if a tad restrained.	62	3			•				•	121
▲ NVA AP-20	340	G+	Utilitarian amplifier sounds gentle and restrained but is euphonic and utterly engaging. Optional phono stage	35	4			•					109
Onix OA-21S/SOAP	730	G-	Via MM disc this amp comes alive with a fresh and vibrant sound though its CD input sounds utterly dead by comparison.	60	4	•	•	•					97
▲ Philips FA-930	200	A+	Radical styling hides a digital switching facility plus full remote control over what is Philips' best effort to date	99	5	•		•			•	•	109
Pioneer A-300X	230	A+	This revamped version of the A-300 was also more confident sounding via CD than MM, yet our panel were still left unmoved.	55	5	•		•					116
▲▲ Pioneer A-400	280	VG	Pioneer's design concept snaps into focus with an amp that seems to bubble with musical detail. A budget bench-mark	71	5	•	•	•				•	92
▲▲ Pioneer A-400X	300	VG	This looks like the established A-400 but uses new circuitry to encourage a gentler if no less enthralling sound.	68	5	•	•	•					129
▲ QED A270CD/PA	370	G+	Recent updates have bolstered the output of the A270 without adding to its colorations. The PA phono option is a touch expensive	61	5			•					97
▲ QED C300/P300	630	G	A cost-effective combo, limited in its resolution but less beguiling as a result. Disc stage is sweeter but samey	58	3	•	•		•	•			85
Quad 34	398	A	Well-built durable preamp, filtering and above average tone controls but was found lacking in sound quality (viz: detail/dynamics)		4	•	•		•				44
Quad 66/606	1553	G	Amplifiers with a classic lineage but compromised by an equally dated, soft and undynamic sound.	138	6	•			•	•	•		124
Rational Audio	175	A+	Wacky Czechoslovakian amp offers a very open and fluid sound via CD but its MM performance depends on cartridge load impedance.	129	3	•		•					92
Rega Elex	359	A	Minimalist amplifier that sounds too forward, hard and unforgiving for its own good. Shows plenty of promise, however.	51	4	•		•					116
▲ Rose RV-23	450	G+	Beautifully built British 'hybrid'. You can spend more to get a more transparent sound but it's hard to criticise at the price		3	•			•				77
▲▲ Rotel RA-930AX	175	G+	This budget wonder captivated our listeners with its clean, vibrant and thoroughly involving sound	53	3	•		•				•	104
▲ Rotel RA-935BX	225	G	A line only winner that lets a lot of music through and never lets things get out of hand. Could be a touch more enthusiastic	58	5			•					121
Rotel RC-980BX/RB-980BX	800	A	Plenty of watts per pound, sound is expansive but lacks a sense of poise, of control and fine detail - a disappointment	143	5	•	•		•	•		•	109
▲▲ Sansui AUX-417R	280	G+	Unusually clean and precise with more subtlety than is usually attributed to remote control amps.	53	5	•	•	•			•	•	121
▲ Sansui AU-X911DG	900	G+	At its best when used with the on-board MASH/PWM DAC where it sounds technically neutral but still emotionally charged	112	7	•	•		•			•	85
Sherwood AI-2210	80	P	Lightweight in all respects this is better than you'd find on a midi and at least its reasonably painless.	47	4	•		•				•	121
Sonic Frontiers SFC-1	1500	G+	Smooth, sophisticated Canadian valve amp with a decent direct input and more features than average	54	6			•					126
Sugden A21a	469	G	The modern-day relative of Sugden's original Class A amp and one that offers a smooth, easy-going sound.	25						•			92
Technics SU-VZ220	130	A-	Cheap, cheerful and pretty flexible to boot the SU-VZ220 quickly sounds thin, splashy and relentless when the going gets tough	50	4	•		•				•	109
Woodside ISA230	900	A	Smooth and inoffensive valve amplifier if one that lacks the sparkle and euphony required for a truly entertaining sound.	27	5	•		•					116
Woodside SC26/STA35	3254	G+	Synergistic pairing with a cool, controlled sound, good focus and transparency. More about poise than grunt	35	5				•	•			100
YBA Integre	1199	G+	Audiophile spec French integrated with good resolution and nice phono stage.	57	4	•		•				•	121
▲ YBA 1 pre/power amp	8000	E	Well finished pre/power amp offers front rank stereo staging and transparency, and is capable of driving the most difficult loads	85	5	•	•		•	•			62
▲ YBA 2 pre/power amp	3849	G+	Superbly finished with very good space and transparency, slightly softened bass. Needs transformer for MC cartridges	70	5	•	•		•	•			56
YBA 3 pre/power amp	2449	G	This duo produced see-through, ethereal stereo images that were more convincing towards the centre of the soundstage	56	4	•			•	•			72



AV amplifiers

In practice an A/V amplifier provides all the standard CD, tuner, tape, aux and phono inputs offered by a standard stereo amplifier. In addition many also incorporate an AM/FM tuner section which, strictly speaking, makes them A/V receivers.

More importantly a modern A/V amplifier includes a Dolby Pro Logic decoding chip along with extra circuitry to effect the rear channel delay. Naturally there's at least four channel's worth of amplification under the bonnet to feed the five loudspeaker outputs (Front L and R, Centre and Rear mono L+R).

Most also include a line-level subwoofer output to enhance the rib-shaking impact of 'action' movies for example.

Some A/V amps offer other surround modes like simulated stereo, Hall surround (L+R is fed to the rear) and Matrix surround (L-R is fed to the rear). Others use an element of Digital Signal Processing (DSP) to steer the Dolby Pro-Logic or permit a variable rear channel delay. Some also include DSP options like Jazz, Church, Hall and Stadium Surround modes which use different delay and steering levels to generate different `sound fields'.

From left to right the headings below indicate how many watts per channel each amp has for its front, centre and surround outputs.

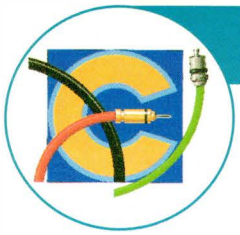
Surround modes indicates how many different surround effects are available and includes DSP.

The audio inputs are for both hi-fi and AV components. S-type and phono video inputs are for VCRs, Laserdisc players and CTVs, S-type being the better of the two .

Subwoofer outputs are of the phono socket variety for active subs, and AM/FM tuner denotes if the unit is effectively a receiver.

AV amplifiers

Product	£Price		Comments	Front output W/8Ω	Centre output W/8Ω	Surround output W/8Ω	Surround modes	Audio inputs	Video inputs phono	Video inputs S-type	Subwoofer output	AM/FM tuner	Issue No.
Denon AVC-3530	999	VG	A true heavyweight with a richly detailed sound and flexible features to match	142	141	46	10	9	5	5	•	•	125
Harman Kardon AVR30	999	G+	Limited surround options are offset by a very secure sound with excellent control over effects.	74	75	30	7	10	6	0	•	•	125
Kenwood KA-V8500	699	G-	Can sound a tad forced and immediate but is remarkably well-equipped with digital soundfield options.	62	63	37	10	11	6	5	•		125
Marantz PM-700AV	450	A+	Sounds just great through front and centre channels but surround is very weak.	69	52	51	3	7	6	3			125
Philips FR940	450	A-	Perhaps as a result of the mismatch between front/centre channels, the FR940 proved a great disappointment on dem.	180	24	24	6	8	4	0		•	125
Pioneer VSA-D802S	600	A-	The disappointingly grey sound lacks attack and confidence, undermining the tension of movie soundtracks.	53	55	32	9	9	5	3	•		125
Technics SA-GX550	450	VG	A surprisingly gutsy and involving performance from a modestly-priced package.	48	48	49	2	5	2	0		•	125
Yamaha DSP-A2070	1100	G+	The ultimate in A/V flexibility with full manual control over ever conceivable soundfield.	101	99	35	24	10	6	6	•		125



Cables

Cables are not accessories but an integral part of your system. You can make do without accessories but no conventional system will function without cables. Inevitably some cables are greater than others. The best cable for your system will only be found through trial and error, but hopefully by combining our recommendations with those of a dealer you will end up with something that suits both your pocket and your system. Generally speaking budget to spend about ten per cent of the total system cost on cables.

Analogue interconnects are the leads that connect source components to amplifiers and pre to power amps. The cables in this section are priced for a one metre terminated pair. Symmetrical indicates where a twisted pair of conductors are used.

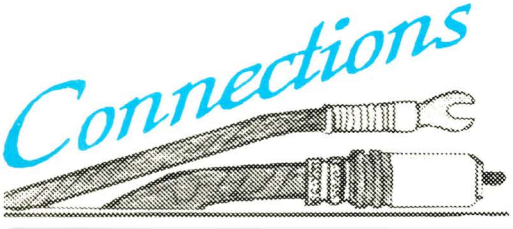
Coaxial means that there is a central 'hot' conductor and a shield that carries the negative signal. Stranded cables have multiple strands and solid core use individually insulated strand(s). Copper and silver indicates whether these metals are used as conductors.

Digital interconnects connect CD transports to DACs, and are traditionally coaxial with a 75ohm impedance. They come in optical and electrical varieties, the former being made of plastic or glass and the latter in coaxial or alternative configurations. The prices shown are for a terminated linear metre

Speaker cables are used between the amplifier and speaker. Our prices are for a terminated 5metre pair. Resistance and capacitance are indicated as low (L), medium (M) or high (H). Neither high resistance nor high capacitance cables are suitable for long runs.

Analogue interconnects

Product	£Price		Comments	Symmetrical	Coaxial	Stranded	Solid core	Copper	Silver	Issue No.
Audio Note AN-A	29.50	A-	A well-rounded and cuddly sound from a high-ish resistance interconnect. Lacks a sense of scale and dynamics	•		•		•		108
Audioquest Ruby Hyperlitz	70	A+	A crisp, fast and articulate-sounding cable if one that's a little too pointed for our listeners	•			•	•		108
▲ Audioquest Lapis Hyperlitz	329	E	An expensive cable that justifies its tag with a beautifully poised sound - natural, relaxed and very compatible.	•			•		•	108
Audio Technica AT620	28	A	Plenty of cable for the money but its performance is distinctly lightweight, lacking depth and subtlety		•	•		•		108
Chord Chameleon	59	A+	An unpredictable cable with an 'anomalous treble' that can sound harsh one moment and oddly recessed the next!		•	•		•		108
▲ Chord Solid	115	VG	What looks like a military RF cable actually provides a slightly forward but incisive and intimately detailed performance		•		•	•	•	108
▲ Cogan-Hall Intermezzo Ref	185	E	A user-hostile cable with a tight, convincing bass allied to a very relaxed and involving mid/treble.	•			•	•		108
Cogan Hall Intermezzo E-M	320	G+	This bigger, thicker and thoroughly unwieldy 3-core version of the Intermezzo Reference actually sounds a little coarser	•			•	•		108
▲▲ DNM Interconnect	40	VG	Fresh, transparent and packed full of detail, this slither of a cable scored a direct hit with our listeners	•			•	•		108
Goldring 'Studio Quality'	20	A-	A bog-standard OFC coaxial cable that might otherwise be given away with a new amp or CD player. Cheap but nothing special.		•	•		•		108
▲ Isoda Electric HA-08-PSR	199	G+	This odd-ball cables utilises a mix of copper, brass and aluminium strands to achieve a very distinct sound	•		•		•		108
▲ Madrigal HPC	215	VG	A very unusual cable design with a business-like approach to music-making that barely conceals its underlying 'fizz'.	•		•		•		108
Magnan Type Vi	595	A+	With a series resistance some 500-1000 times higher than average, the furry sound of the Type Vi will alter from system to system.		•	•		•		108
▲ Monster Interlink 500	60	G+	Plenty of hype to keep the marketing bandwagon rolling plus a lively and lucid balance to cheer up the enthusiast	•		•		•		108
▲ Moth Ley Line Black	100	G+	The cheapest of Moth's Ley Line series uses just two twisted conductors to achieve a very solid and confident sound.	•			•	•	•	108
Moth Ley Line Grey	200	G+	The four twisted conductors of this cable actually mark a downturn in audio quality	•			•	•	•	108
▲ Panasonic RP-CA910	50	G	This conventional coax employs plenty of hi-tech materials which encourage an even-handed balance. A good upgrade.		•	•		•		108
▲ Silver Sounds 12/2 and 12/3	99/150	VG	Both these cables share a similarly open, transparent and dynamic sound though the latter is arguably the better integrated	•		•		•	•	108
Sonic Link Yellow	60	A	An interesting non-copper cable with an up-front sounded described as 'heavy-handed and pushy'.		•		•			108
▲ Sonic Link Violet	99	G+	Another nickel-based cable but with a very much better-balanced sound than Sonic Link Yellow	•			•			108
Straight Wire Laser Link	50	A+	Thanks to its high parallel capacitance this interconnect helps remove ultrasonic noise. Unfortunately it still sounds very odd!	•			•	•		108
Straight Wire LSI-Encore	90	A+	A solid-sounding cable with a strong mid and bass but a disappointingly sat-upon treble	•			•	•		108
▲ Tara Labs Prism	36	G	6N-purity copper, aero-grade insulation and spaced solid-core conductors all add-up to a slightly bright but frisky sound	•			•	•		108
▲▲ Tara Labs Quantum CD	63	G+	Praised by our panel for its lack of obvious vices, Quantum CD encourages a sweet and positive sound.	•			•	•		108
Tara Labs Quantum II	99	G	Bass power and extension is the key to the sound of this unusual and hi-tech cable	•			•	•		108
▲ van den Hul The Source	70	G+	Accurately reflects the life of the music without detail forcibly from the speakers		•	•		•	•	108
van den Hul MC D-102mkIII S	80	A+	A rather coloured sound thanks to its full and resonant bass but spoiled overall by a dirty treble	•		•		•	•	108



Tel: 081 348 5676 (2.00-7.00 pm)
Fax: 081 341 9368

Esoteric High Fidelity CABLES

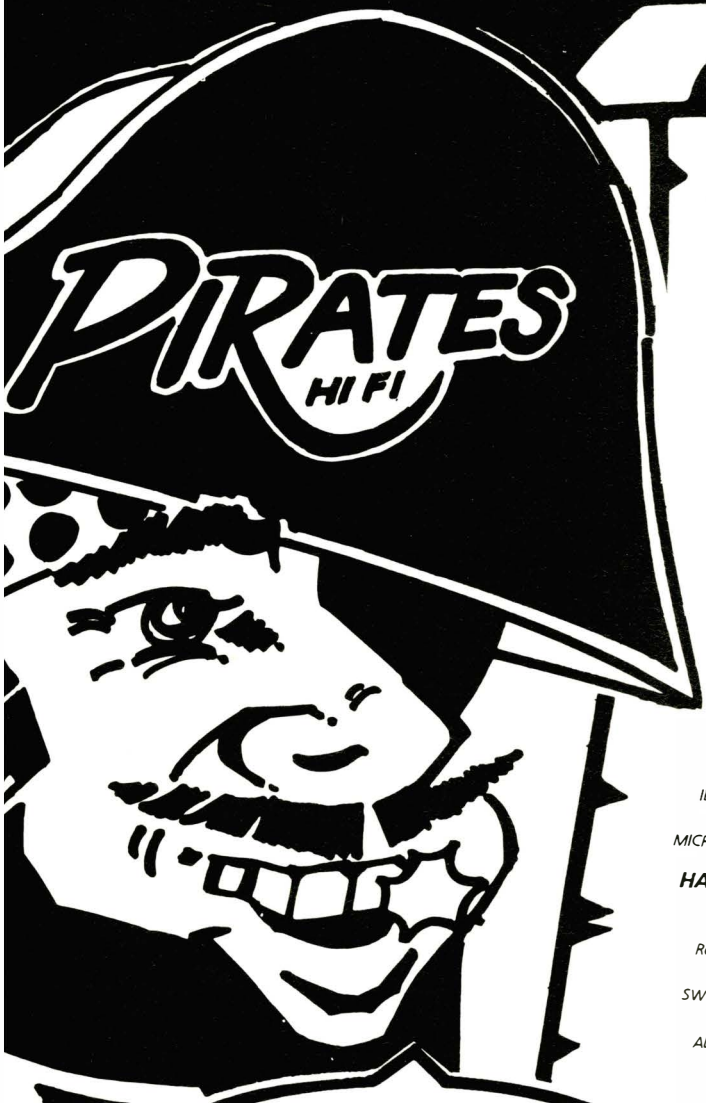
Dealers in: Absolute, Audio Note, Audioquest, Deltec, Harmonix, Kimber, Mandrake, MIT, Siltech, Symo, Transparent, Van den Hul, WBT and others.

... the RIGHT cables
... in YOUR system
... for YOUR ears
... in YOUR home

Contact us by phone, fax, or letter and we'll do our best to help you achieve your goal.
(Auditions may be subject to a handling charge)

CONNECTIONS 13 John Princes Street, London W1M 9HB (A division of Connection 90' Travel Ltd.)

PIRATES HI FI



TREASURE TRAIL

YET MORE CHIPS OFF THE OLD BLOCK ME 'EARTIES WITH MIGHTY LUMPS HAMMERED OFF THE PRICES, SO CUDGEL YOUR WAY TO ANOTHER STUNNING DEAL AT PIRATES, THOUGH THIS LOT BE EX-DISPLAY, IT ALL BE IN PRISTINE CONDITION WITH MAKERS CARTONS, INSTRUCTIONS, ACCESSORIES AND FULLY GUARANTEED NUMBERS BE 'IGHLY LIMITED SO PLEASE PHONE BEFORE YOU TRAVEL

ARCAM
ALPHA 3 Amp £ 99.95
DELTA 60 Amp £ 149.95
DELTA 70.3 CD £ 349.95

AUDIO ALCHEMY
DDS11 Trans £ 479.00

AIWA
XC750 CD £ 119.95

ALBARRY
AP4 Pre Amp £ 199.95

B&O
BC8000 Centre £ 659.95
RL1000 SB £ 129.95

B&W
804 Speakers £ 899.95
Solid Speakers £ 149.95

DENON
DRM710 Cassette £ 159.95
DCD595 CD £ 109.95
DCD 890 CD £ 169.95
DRA345 Receiver £ 149.95
DCD695 CD £ 119.95
DR5610 Cassette £ 149.95
PMA450 Amp £ 149.95

SYSTEMDEK
IIX 900 Turntable £ 139.95
IIXE 900 Turntable £ 199.95

GOODMANS
MICRO1250 Mini+CD £ 139.95
M100 Speakers £ 49.95

HARMAN KARDON
HD7300 CD £ 139.95

HECO
Reflex 10 Speakers £ 89.95

JAMO
SW150 Subwoofer £ 119.95

JVC
ADAGIO S2 Midi £ 229.95

KENWOOD
DP7050 CD £ 209.95

LYNX
NEBULA Amp £ 129.95
PULSAR Amp £ 209.95
THETA Tuner £ 149.95

MARANTZ
PM53 Amp £ 149.95
PM63 Amp £ 179.95
PM700 Amp £ 269.95
SD53 Cassette £ 119.95
SD63 Cassette £ 149.95
CD72SE CD £ 359.95
SYS1010 System £ 539.95
ST53 Tuner £ 99.95

MISSION
780 Speakers £ 139.95

MONITOR AUDIO
MA700 Gold SE £ 299.95
Monitor 9 Speakers £ 179.95
SW200 Subwoofer £ 179.95

MUSICAL FIDELITY
PRE8 Amp £ 209.95
CDT CD £ 319.95
CDTC CD £ 329.95
TUBALOG DAC £ 299.95
MA65 Mono Blocs £ 569.95
TYPHOON PwrlAmp £ 209.95
THE PRE AMP £ 139.95
T1 MKII Tuner £ 179.95

NAD
802 Speakers £ 139.95

PINK TRIANGLE
LPT-BLK Turntable £ 359.95

QLN
Signature Speakers £ 659.95

ROGERS
LS4AI2 Speakers £ 199.95
Studio 3 Speakers £ 299.95

ROKSAN
ROK-DP1 CD Trans £ 719.95

ROTEL
RA960BX Amp £ 179.95
RA935BX Amp £ 139.95
RA940BX Amp £ 149.95
RA980BX Amp £ 239.95
RC980BX Amp £ 209.95
RD955AX Cassette £ 119.95
RD965BX Cassette £ 149.95

RUARK
Sabre Speakers £ 229.95
Rhapsody Speakers £ 479.95

SONY
TCK311B Cassette £ 89.95
TCWR635 Cassette £ 169.95
CDP411 CD £ 119.95
CDP711 CD £ 149.95
Comp 359 CD Midi+CD £ 359.95
MHC510 Mini £ 229.95

TANNOY
603MKII Speakers £ 89.95
609MKII Speakers £ 179.95
611MKII Speakers £ 259.95

TEAC
V1010 Cassette £ 149.95

TECHNICS
SUVZ220 Amp £ 99.95
SUVZ320 Amp £ 129.95
RSBX646K Cassette £ 139.95
SLPG340AK CD £ 89.95
SLPS740AK CD £ 149.95
SAGX350 Receiver £ 199.95

THORENS
TD166RB250 T/table £ 179.95

YAMAHA
KX260 Cassette £ 99.95
KX360 Cassette £ 119.95
CCS Mini System £ 389.95
TX350L Tuner £ 79.95
TX670 Tuner £ 149.95

NOTTINGHAM PIRATES ONLY

AIWA
XC750 CD £ 129.95
NSX340 Mini £ 249.95

CELESTION
DL4 II Speakers £ 99.95

DENON
DCD695 CD £ 149.95

GOODMANS
HT 175 Speakers £ 119.95

KENWOOD
KT1050L Turner £ 79.95

NAD
6100 Cassette £ 179.95

PRICES VALID UNTIL 31TH JULY 1994

FEAST YOUR EYES ON ME 'B' STOCK BLASTERS SHIPMATES. THE PRICES WILL DELIGHT YOU!

GOODMANS 'B' STOCK BLASTERS

ALL WITH MANUFACTURERS FULL 12 MONTH WARRANTY - PRICES INC VAT

FULL SIZE CD MULTIPLAYER, 6 DISC + SINGLE DISC DRAW INC REMOTE GCD658
WAS £ 169.95 -
NOW ONLY £ 79.95

FULL SIZE 20 TRACK PROG CD PLAYER WITH REMOTE GCD600R
WAS £ 109.95 -
NOW ONLY £ 59.95

50 X 50 WATT REMOTE CONTROLLED AMP GSA360
WAS £ 99.95 -
NOW ONLY £ 59.95

BELT DRIVE TURNTABLE INC CARTRIDGE GSP360 / 600 / 650
WAS £ 59.95 -
NOW ONLY £ 29.95

HERE BE THE PLACES WHERE YOU SWAPS YOUR DOUBLOONS FOR OUR TREASURE

• WE ACCEPTS ALL KINDS OF DOUBLOONS - GOLD, PAPER & PLASTIC'S ALL FINE



CROYDON 369 LONDON ROAD 081 665 9342
LEICESTER 94 GRANBY STREET (0533) 557518
NOTTINGHAM 3 MANSFIELD ROAD (0602) 501003
OXFORD 41 ST CLEMENTS (0865) 241 773
WATFORD 478 ST ALBANS ROAD (0923) 212736
WOOLWICH 162 POWIS STREET (081) 855 8016

Digital interconnects

	Product	£Price		Comments	Type	Plastic	Glass	Coaxial	Non-coaxial	75-Ω	Issue No.
▲▲	Audioquest Video Z	50	E	The very best available with an expressive sound but generous price to sweeten the pill	Electrical			•		•	108
	Audioquest Digital PRO	90	A+	A silver cable with all the drive of Video Z but lacking its clean-cut transparency	Electrical			•		•	108
	Audioquest Optilink Z	100	A	Good level of midband detail but frequency extremes lack depth and extension	Optical		•				108
	Bandridge AL560	20	P	The disappointingly heavy and muddled sound of this basic fibre thwarts any recommendation	Optical	•					108
	Chord Codac	34	A	A connection with a stranded inner core and a sound that lacks integration	Electrical			•		•	108
▲▲	DPA Digi-link	27.50	VG	Can seem slightly impassive but there's no avoiding its exceptionally detailed sound	Electrical			•		•	108
	DPA Opti-link	20	P	Very similar to Bandridge AL560 with an equally naff sound	Optical	•					108
	Kimber PSB Digilink	24	A-	An analogue interconnect inappropriately pressed into digital service. A visible deterioration in the digital signal results.	Electrical					•	108
	Kimber KC-1 Digilink	52	A	This cable adopts a woven construction with the addition of a conductive screen. Music lacks detail and spirit.	Electrical					•	108
	Kimber KC-AG Digilink	222	A-	An asymmetric cable using silver conductors that deviates from the 75ohm standard. Not ideal for digital applications.	Electrical					•	108
▲	Kimber Opti-Link	70	G	Hardly cheap for what appears to be a bog-standard PMMA fibre, yet it sounds a little brighter and livelier than most.	Optical	•					108
▲	Monster Cable Datalink 100	45	G+	A colourful coaxial interconnect with an equally colourful and up-beat sound. Very compatible.	Electrical			•		•	108
▲	Monster Cable Interlink LS100	45	G	Well constructed stepped-index fibre with polished ends and rugged connectors. Slightly lean, fuzzy but engaging performance	Optical	•					108
	Moth Leyline Datalink	140	A-	A thin, coaxial version of Leyline Black with a rather hard and unforgiving character. Too expensive.	Electrical			•		•	108
▲▲	QED Digiflex	19	VG	A top performance, low-loss 75ohm coax with a very open, almost liquid quality that allows its music to ease naturally across.	Electrical			•		•	108
	Sonic Link Brown Digital	35	A-	A solid-core, twisted-pair interconnect that deviates from the 75ohm standard and provides an equally unbalanced sound	Electrical					•	108
	Straight Wire Silver link	60	G+	A genuine attempt to get things right with a silver-plated, multi-strand coax. Yet it still sounds too dry and mechanical	Electrical			•		•	108
▲	van den Hul MC Videolink 75	30	VG	An AV-cum-digital cable that comes very close to besting QED's Digiflex. Still some emphasis of vocal sibilants, however	Electrical			•		•	108

Speaker cables

	Product	£Price		Comments	Resistance	Capacitance	Stranded	Solid core	Copper	Silver	Issue No.
▲	Audio Note AN-B	165	G+	A very high capacitance Litz-style cable whose sound may well act as a taming influence in many systems	M	H		•	•		109
	Audio Note AN-D	100	A	Supplied in linear, non-polarised lengths that should be twisted into stereo pairs. Sounds rather gritty and forward	L	L	•		•		109
▲	Audio Note AN-SP	1270	VG	Some 15 individually-insulated silver strands go to make up this very civilised but exceptionally detailed-sounding cable	H	L		•		•	109
▲	Audioquest F-14	44.50	A+	Ideal for laying flat under carpets, F-14 encourages a slightly warm and vibrant sound	M	L		•	•		109
	Audioquest Type 4	75	A+	Four 18-gauge OFHC copper conductors wound in a Litz-fashion increases capacitance but restrain the cable's 'bite'	M	H		•	•		109
	Audioquest Midnight Hyperlitz	260	G	Very similar to Type 4 but with a delicate smoothness that contrasts with the brighter sound of cheap cables	L	H		•	•		109
▲	Bandridge LC7259 & LC7401	20/30	A	Two very traditional figure-of-eight cables. The thinner version (LC7259) sounds lighter and coarser than LC7401	L	L	•		•		109
	Bandridge LC8258 & LC8408	30/50	A-	Two versions of the Silverflex series that, sadly, encourage very little sense of poise or decorum in their music	L	L	•		•	•	109
▲	Cogan-Hall Intermezzo Full-Range	465	VG	Extra care must be taken to prevent shorting this user-hostile cable. Nevertheless it sounds superb!	L	L		•	•		109
▲	DPA IS19	275	G+	Shares the clear, neutral and transparent sound of the older 8S without the tremendous clarity of Gortex Black-16	L	L		•	•	•	109
	DNM Rainbow	84	A+	The high impedance of this simple ribbon cable has an influence on the treble response of some speakers. Lacks 'oomph'	H	L		•	•		109
	Heybrook Heywire	66	A	This well-meaning facsimile of earlier ribbon-style cables ends up sounding lumpy and uneven	H	L		•	•		109
	Isoda Electric HA-20	400	A+	This unorthodox cable employs a combination of copper, brass and aluminium strands. It sounds 'oddly impure'!	M	L	•		•		109
▲▲	Mission Stranded	20	G+	This Swedish-made cable proved a real hit with our listeners - a slick performer and Best Buy upgrade	L	M	•		•		109
	Monitor PC KC27/KC34	40/60	A	Two heavyweight multi-strand cables with a thick and chesty (10027) or light and wispy (10034) balance. Take your pick	L	L	•		•	•	109
	Monster Powerline 3 Plus	75	A-	The archetypal 'old-style Monster Cable' that labours under a soggy bass and untidy treble	L	M	•		•		109
	Naim NAC A5	44	A-	Described as a 'dinosaur of a cable' by our listening panel, this stiff rod of wire has little application outside of a Naim system	L	L	•		•		109
	QED Bi-wire 79-Strand	35	A	Reminiscent of curtain track, this bi-wire version of 79-strand is unfortunately saddled with a 'loud, hard and untidy' balance	L	L	•		•		109
▲	Silver Sounds 12/2	300	E	Tonally accurate and exquisitely detailed, this cable opens a very transparent window on the music	L	H		•	•	•	109
▲	Silver Sounds 16/4	200	VG	A prime choice for bi-wire systems even if this cable does lack the full finesse of its sister 12/2	M	H		•	•	•	109
	Sonic Link Grey	80	G-	A spaghetti-thin cable composed of silver-plated OF-copper and PTFE insulation. Lacks bass impact and treble 'air'.	H	M		•	•	•	109
▲	Straight Wire Waveguide 1.5	20	G	A conventional multi-stranded cable with a refreshingly up-beat, crisp but slightly lean-sounding balance	M	M	•		•		109
▲	Straight Wire Flex-4	50	G+	Another very quick and dynamic-sounding cable from Straight Wire. A little short on subtlety but very engaging nonetheless.	L	H	•		•		109
	Tara Labs Quantum III	238	G	An imaginatively-named cable that encourages an equally colourful sound. Described as 'dark and fruity' by our panel!	L	H		•	•		109
	van den Hul MC The Clearwater	50	A	Despite its evocative title, the Clearwater turns out to be a disappointingly 'murky sounding' cable	M	L	•		•	•	109
	van den Hul MC The Magnum	265	A	Touted as vdH's most prestigious twinlead speaker cable, the Magnum sounds surprisingly soft and old-fashioned	L	L	•		•	•	109
▲	van den Hul MC The Wind	330	VG	Blown-in from the continent, vdH's 'Wind' kicks up a storm with its lush midrange and bone-crunching bass!	L	M	•		•	•	109

TO GET THE FULL PICTURE, ORDER UP THE RELEVANT BACK ISSUE FROM THOSE NICE PEOPLE AT DENNIS DIRECT. CALL RUTH OR MARGARET ON (0789) 490215. PLEASE NOTE THAT DUE TO HIGH DEMAND NOT ALL ISSUES ARE AVAILABLE.

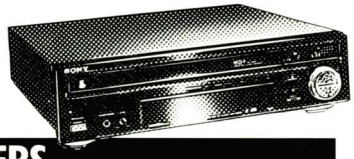
Aiwa • Ar… …llo • Alpine • Beyer • Bose • B

Sharp • Sennheiser • Technics • Toshiba • Wharfedale • Kenwood •

CUT! HOME CINEMA DOWN IN PRICE AT CLEARTONE

PRICE PROMISE!

We will refund the difference if you can find the same product, with the same offer, cheaper locally. Just come back to us within 7 days of purchase, with the details. The product must be new, complete and available for immediate delivery. This guarantee excludes mail order prices or offers.



RECORDERS/PLAYERS

SONY MPD 850 LASER DISC PLAYER

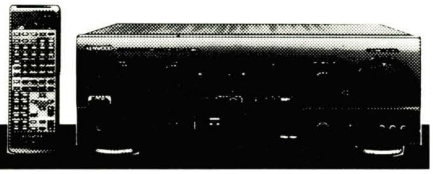
- MTSC/PAL dual system
- Auto reverse
- CD/CDV/LD multi disc player
- Jog/Shuttle remote control

NEW — NOW IN STOCK £699.99

TOSHIBA V 813 – Video of the Year

- Nicam Stereo • Video Plus
- Twin SCART • P.D.C.
- Long play
- Index Search

SAVE £50 — WAS £529.99 NOW £479.99



AMPLIFIERS

KENWOOD KAV 8500

- Dolby Pro Logic
- Adjustable DSP
- Learning remote control
- Dolby 3 channel stereo
- Five discrete amp channels

SAVE £200 — WAS £699.99 NOW £499.99

DENON AVC 3530 AMPLIFIER

- Digital Signal Processor
- Dolby Pro Logic
- 5 video inputs
- 8 video sockets
- DENON FLAGSHIP

STAR BUY! — ONLY £999.99



TELEVISIONS

PHILIPS 67cm WIDESCREEN TV

- NICAM digital stereo
- Blackline picture tube in Widescreen (16:9) format
- High volume subwoofer
- 2 Euro Connectors (SCART)
- Colour transient improvement (CTI)

INTEREST FREE* — ONLY £999.99

TOSHIBA 2527 25" NICAM STEREO TV

- Digital Sound processor with sound effects for hall, theatre, disco and stadium
- Dolby Surround
- Unified remote control
- Advanced on-screen display

SAVE £150 — WAS £799.99 NOW £649.99

PHILIPS 46" SUPERSCREEN TV

- 100w output
- NICAM Digital Stereo
- 100Hz Digital Scan screen
- NTSC video playback (via SCART)
- Picture in picture • Spatial stereo

INTEREST FREE* — NOW IN STOCK £2699.99



SPEAKERS

JAMO SURROUND SPEAKERS

- 2 way speaker
- Powerful 50 Watts output
- Dolby Pro Logic sound capability

STAR BUY! — ONLY £39.99

JAMO CENTER 100 LOUDSPEAKER

- 3 Way dialogue speaker
- Dolby Pro Logic sound capability
- Weighs only 2Kg
- Magnetically sheilded

SAVE £20 — WAS £139.99 NOW £119.99



RECEIVERS

KENWOOD KR V7050 AV RECEIVER

- Dolby Pro Logic
- RDS also available
- Remote control
- DSP Logic

INTEREST FREE* — ONLY £429.99

KENWOOD KR V6060 AV RECEIVER

- 5 channel amplifier
- Stereo output 100w
- Dolby Pro Logic with Time Link Delay • Full RDS
- Dolby 3 Channel stereo
- VIG stabilised amplifier

INTEREST FREE* — ONLY £349.99

Volver • Quad • Rotel • Sound Organisation • Sony •

& W • Bang & Olufsen • Canon • Celestion • Denon •

Dual • JVC • Kenwood • Marantz • Meridian • Mission • Mordaunt Short

FANTASTIC Summer Savings!!

AMPLIFIERS	WAS	NOW	SAVE
Denon PMA 450	£249.99	£199.99	£50.00
Rotel RA 930 AX	£174.99	£139.99	£35.00
Technics SUV2 320	£169.99	£129.99	£40.00
Marantz PH44SE	£199.99	£179.99	£20.00

CASS DECKS	WAS	NOW	SAVE
Sony DTC 690 DAT Recorder	£599.99	£399.99	£200.00
Sony TCK511S	£279.99	£199.99	£80.00
Pioneer CTS 420	£249.99	£199.99	£50.00
Technics RSBX404	£179.99	£149.99	£30.00

MIDI SYSTEMS	WAS	NOW	SAVE
Kenwood M76G	£949.99	£699.99	£250.00
Sony Compact 209	£499.99	£369.99	£130.00

MINI SYSTEMS	WAS	NOW	SAVE
Aiwa NSX500	£369.99	£299.99	£70.00
Sony MHC3800	£749.99	£599.99	£150.00

CD PLAYERS	WAS	NOW	SAVE
Aiwa XC750	£199.99	£129.99	£70.00
Technics SLPG440	£169.99	£139.99	£30.00
Denon DCD 890	£269.99	£199.99	£70.00

SPEAKERS	WAS	NOW	SAVE
KEF Q90	£649.99	£499.99	£150.00
KEF Q80	£499.99	£399.99	£100.00
Heco Superio 250	£270.00	£170.00	£100.00
Canon S30	£179.99	£149.99	£30.00

1000'S OF OTHER BARGAINS IN STORE

All stock is subject to availability.

ACTION! cut the coupon now.

Mail order Service

Please mail me

I enclose cheque/P.O. for

£

made payable to Cleartone.

Name

Address

Post to:
Cleartone, 235 Blackburn Road, Bolton BL1 8HB

HFC 8/94

*12 months Interest Free Credit subject to status APR 0%. Ask for full written details. Licenced credit brokers.

NUMBER

CLEARTONE

FOR HOME ENTERTAINMENT

BIRMINGHAM 122/123 New Street. Tel 021 633 4944
BIRMINGHAM Horntons Electronics, 8-9 Lower Temple Street. Tel 021 643 0972
BOLTON 235 Blackburn Road. Tel 0204 31423 **BRADFORD** Rawson Square. Tel 0274 309266
COVENTRY 78 Lower Precinct. Tel 0203 632086
GLOUCESTER (formerly Robbs) 13/15 Worcester Street. Tel 0452 419777
HALE 162/164 Ashley Road. Tel 061 928 1610 **KEIGHLEY** 38 Cavendish Street. Tel 0535 602933
MANCHESTER 54 Bridge Street. Tel 061 835 1156 **MANCHESTER** 66-68 Bridge Street. Tel 061 832 2081
ROCHDALE 52 Drake Street. Tel 0706 524652 **WALSALL** Park Street. Tel 0922 644169
WIGAN 6 Crompton Street. Tel 0942 323897 **WOLVERHAMPTON** 39 Victoria Street. Tel 0902 772901
WORCESTER 27/27A The Cross. Tel 0905 726375
WORCESTER David Warings, Marmion House, High Street. Tel 0905 27551

NAD • Nakamichi • Panasonic • Philips • Pioneer • Re



Cassette decks

The bad odour of copyright theft hangs around the compact cassette, but there is no doubt it is the world's most versatile and ubiquitous music storage medium. Buffs may wrinkle their noses, but are happy to use cassette decks to make up tapes for the car or personal.

There is no problem in connecting a cassette deck to any normal amplifier, but some care needs to be taken in choosing the best tapes for a specific machine. (Trial and error is one effective technique, but many decks have manual bias adjustment and some match up to the tape automatically.) Lab performance and sound quality often go hand in hand, and are frequently somewhat dependent upon factory alignment. The mechanical integrity of the mechanism is another crucial factor, that is reflected in the price.

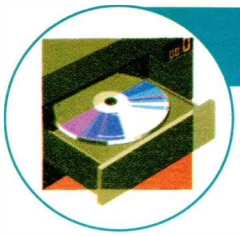
The columns on the right indicate when the facilities shown in the headings are available on a deck. Dolby B and C offer varying degrees of noise reduction and the HX Pro system gives significant treble improvements with ferric (Type I) tapes. Dolby S increases the level of noise reduction with less signal degredation than B or C. Three-head recorders allow you to listen to a recording as it's being made, a useful qulaity control function. Bias adjustment allows you to fine tune the deck to suit different types of tape when recording. Auto calibration is a an automatic system for setting bias and Dolby levels.

Twin deck offers the option to dub tapes or to play two cassettes simultaneously. Autoreverse is a useful convenience feature, but usually with some mechanical compromise. In the case of twin decks a blob is inserted in this column even if only one transport autoreverses.

Cassette decks

	Product	£Price		Comments	Dolby B	Dolby C	Dolby HX Pro	Dolby S	3 Head	Bias adjust	Auto calibration	Twin deck	Autoreverse	Issue No.
▲▲	Aiwa AD-F410	120	A	Comparable to AD-F500 but cheaper: Good all round performance, well adjusted, useful basic and not so basic features	•	•	•				•			99
▲▲	Aiwa AD-F810	230	G	First class budget 3-head machine with a dual capstan transport that really works at reducing the 'fudge' factor	•	•	•				•			99
▲▲	Aiwa AD-WX828	200	G-	Equipment levels strong, and sound is both vivid and presentable, but control system daunting.	•	•	•					•	•	• 123
▲▲	Aiwa AD-WX929	230	A	Superbly equipped twin deck that works and works well - remote control	•	•	•	•					•	117
▲	Aiwa XK-S9000	700	G+	Fabulous build, clunky transport and sharp, refined sound quality with Dolby S or B and metal tapes	•	•	•	•	•	•	•			105
	Akai DX-57	220	G	Eschews fancy gadgets for a good transport and decent electronics. Sound quality is firm and tidy but avoid Dolby C.	•	•	•	•	•	•				105
▲	Akai GX-95II	440	G+	Sharp, clear and articulate sounding deck, with superb performance extending to frequency extremes	•	•	•	•		•	•			99
	Akai GX-R35	220	A	Middling sound quality at best with Dolby B; deteriorates with Dolby C	•	•	•	•		•				99
▲	Akai GX-W45	320	A	Costly but musical high-spec dual deck, doesn't like modern high energy Type IIs and IVs. Good stability and clarity	•	•	•						•	111
▲	Arcam Delta 100	850	E	Superb transport and a ripe, spacious sound. The Dolby S installation more successful than most. Some replay incompatibility	•	•		•	•		•			111
	Denon DRM-710	260	A	Although this is a fair performing model, the design has lost some of the competitive edge of its predecessor, the DRM-700.	•	•	•				•			105
▲	Denon DRS-610	200	G	Unique loading mechanism provides stability, and the deck has a crisp, clean quality. Occasionally anaemic bass.	•	•	•				•			111
	Denon DRS-810	300	G-	Drawer loading deck, carefully designed, yet lacking in subtlety on audition.	•	•	•			•	•			127
	Goodmans Delta 700W	100	P	Compact and ultra-basic twin deck which is rough and bass shy, with less than stable tape path.	•								•	• 123
	Harman Kardon DC5500	600	A	Workmanlike sound quality offset by high price and inexplicable shortcomings like 'forgetful' Dolby switching and no timer support.	•	•	•						•	• 117
▲	Harman/Kardon TD4400	350	G	Simple features plus excellent engineering make this a model of integrity.	•	•	•				•			127
	Harman Kardon TD4600	700	A	Original Dolby S deck has improved over the years and now sounds very acceptable. A strong, solid sounding deck - but expensive.	•	•	•	•						117
	JVC TD-R452	180	A-	Tidy, stable but ultimately rather soul-less experience. Auto-reverse is useful though.	•	•	•							• 117
	JVC TD-X352	150	A-	Disappointingly amorphous sound despite decent measured results.	•	•	•				•			117
▲	JVC TD-V562	200	G+	Ultra-sophisticated transport at a silly price; sound quality is stable but slightly opaque.	•	•	•			•	•			123
▲	Kenwood KX-3050	170	A	Acceptable sound quality marred only by a loss of midband analysis and slightly edgy treble.	•	•	•							117
	Kenwood KX-5530	220	A-	Neat looking, well equipped deck, adequately engineered but somewhat lacking musically. Worth considering if auto-reverse is a must	•	•	•				•			• 105
▲▲	Kenwood KX-7050S	400	VG	Very well equipped and fine sounding deck, includes well implemented Dolby S	•	•	•	•	•	•	•			127
	NAD 602	200	G	Minimalist deck for the audiophile market. Unfortunately engineering is minimalist too	•	•	•							127
▲	Nakamichi DR-3	400	VG	Refined, exquisitely detailed and solid sounding 'budget' Nakamichi 2-header.	•	•					•			123
▲▲	Nakamichi DR-2	600	VG	Accomplished design with simple features (manual tape select!) but superb sound/serviceability.	•	•				•	•			127
▲	Nakamichi DR-1	850	VG	Typically idiosyncratic Nakamichi with manual everything, Good azimuth adjustment and dynamic, authoritative sound.	•	•								117
	Philips DCC600	500	A+	Simplified circuit and mechanism, but the Philips badly needs a D/A converter transplant	•	•								• 123
	Pioneer CT-S420	250	A+	Poor replay compatibility, but otherwise satisfactory, if slightly uneven performer.	•	•	•			•		•		127
▲	Pioneer CT-S520	280	G	Decent if slightly coloured middle ranker with FLEX to revitalise old or soggy sounding tapes.	•	•	•			•		•		123
	Sansui D-790WR	170	P	Modestly poor sounding but simple to use twin deck. Type II tapes show large response errors.	•								•	• 123
	Sansui D-X117WR	220	P	Bass is thin and coloured, and the sound lacks dynamics, pitch accuracy and overall stability - the sound is neither stable nor solid.	•	•	•							• 111
	Sherwood DD-3010C	120	P	Good range of features, let down by poor transport and iffy electronics.	•	•	•						•	• 117
▲▲	Sony (WMD6C) Pro Walkman	290	G+	One of the finest sounding cassette decks on the market today. A mandatory Best Buy, which also fits in your pocket	•	•								60
▲	Sony TC-K611S	300	G	Cheapest Dolby S three header yet, yet slightly let down by lack of attention to detail	•	•	•	•	•	•	•			127
	Teac R-9000	500	G	Much better than average auto-reverse deck, well worth considering. Nicely engineered too.	•	•	•	•	•			•		• 105
▲	Teac V-8000S	700	G	Superb stability and real subtlety, this must be the best TEAC yet. The only disappointment was the Dolby C	•	•	•			•		•		105
▲	Teac V-7010	800	G+	Heavyweight (in every sense) design, immaculately crafted, impeccable sound, but not for grannie.	•	•	•			•	•			127
▲▲	Technics RS-BX646	230	G+	Unusually well built and non-microphonic deck with sophisticated facilities and lucid midband.	•	•	•			•	•	•		127
▲	Yamaha KX-650	260	G	Fine audio manners, especially in the midband and treble, mark this high class deck out from the crowd	•	•	•			•	•			99

DON'T RISK MISSING AN ISSUE OF THE WORLD'S MOST EXCELLENT HI-FI MAGAZINE. CALL THE HI-FI CHOICE SUBSCRIPTION HOTLINE ON 0858 468888, OR SEE PAGE 40 FOR DETAILS.



CD players

Now over a decade old, this all digital music source is well established despite high disc prices and the opposition of some hi-fi enthusiasts. Compact Disc's strengths over conventional vinyl are complete freedom from surface noise, ease of use, and more robust software.

However, many vinyl enthusiasts still find CDs sound less involving than top quality vinyl. But, with the dominance of CD in the high street, even vinyl die-hards need a CD player today.

The columns on the right indicate when the facilities shown in the headings are available on a CD player: DAC type indicates the type of convertor chip used in each player, 16, 18 and 20-bit are multi-bit types, all the others are bitstream variants. In much the same way that an amp's output is not indicative of its sound quality, the chip used in a DAC isn't the only determining factor in a CD player's sound, but it is an important one. Remote control is not yet universal, and we have included a tick box, more to show which machines don't have one than which do. The existence of electrical and/or optical digital outputs is important for future upgrading with an outboard DAC, as a rule electrical outputs are the most desirable. Phase inversion in the digital domain is rare on one box players but can make quite a big difference if you've got golden ears. Headphone sockets are useful but beware of those without volume controls. Track entry keypads are those with calculator style buttons which makes track access much quicker.

CD players

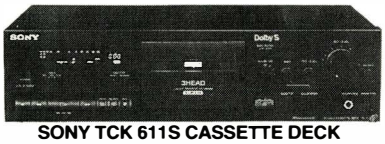
Product	£Price		Comments	DAC type	Electrical digital output	Optical digital output	Variable output	Headphone socket	Track entry keypad	Remote control	Issue No.
Aiwa XC-300	150	A+	Cheap, cheerful and gratifyingly free of digital 'nasties', well-equipped but safe rather than thrilling on the sonic front.	Toshiba BS	•		•		•		107
Aiwa XC-750	200	A	A refined version of the XC-700, sadly it has lost the magic of the original	PDM Bitstrm	•		•		•		119
AMC CD6	349	G+	Based on the same 1-Bit circuit as Rotel's RCD-965BX but with a raunchier, beefier but less transparent sound.	PDM Bitstrm	•	•	•			•	124
Arcam Delta 270	800	G+	The dry but tightly-focussed and supremely detailed sound of this player will either beguile or aggravate, depending on taste!	Hybrid	•	•				•	124
Aura CD-50	400	G-	Based on an older Philips board with new CDM9 transport, this is a slim player with an innocuous sound	SAA7321	•	•				•	119
AVI S2000MC	999	G+	A stylish, midi-width player with an exceptionally refined and comfortable sound. Lacks passion	20-bit	•	•					119
Denon DCD-595	180	G	Lacks the 695's pitch control but provides a smoother sound by way of recompense	18-bit	•			•	•	•	128
Denon DCD-695	200	G	A rough diamond with a raunchy sound to match. Pitch feature will be of interest to budding musicians.	18-bit	•	•		•	•	•	124
Denon DCD-890	270	G-	Similar to the DCD-1290 in its execution, sounds lively and powerful but lacks subtlety.	18-bit	•	•	•		•	•	112
Denon DCD-1290	330	G-	Looks the business but sound is a real five-minute wonder. Its compelling fizz lasts about as long as a firework.	18-bit	•	•	•		•	•	107
Dual CD1080RC	220	A-	Strange-sounding player with a top-heavy treble that does little to redress its lack of vibrancy and emotion	MASH/PWM	•	•				•	107
Genexxa CD-4900	129	A	A little thin on detail, build quality and dynamics but thin on price too!	MASH/PWM	•					•	124
Goodmans Delta 700	110	A+	A 16-bit alternative to the CD650II that furnishes a colourful and animated sound	16-bit	•						128
Grundig Fine Arts CD2	190	A-	A stylish-looking player with a disappointingly vague approach to music-making	SAA7350		•			•		128
Harman Kardon HK7725	800	VG	This flagship implementation of RLS sounds impressively bold and dynamic - a genuine rock 'n roller!	18-bit RLS	•	•	•	•	•	•	124
Harman Kardon TL8600	700	G+	A refined and more flexible version of the TL8500 multiplayer with a significantly more expressive sound	MASH/PWM	•			•	•	•	132
JVC XL-Z1050	500	A	Technically advanced and luxuriously equipped, this player remains rather bland and unsatisfying on audition	PEM Bitstrm	•	•	•		•	•	119
Kenwood DP-3050	200	A+	A slightly over-cooked version of the DP-3040 with a highly civilised but uninteresting sound.	NPC Bitstrm	•		•	•	•	•	124
Kenwood DP-7050	350	A	Kenwood's first sowing of Philips' Bit Stream technology has fallen on stony ground judging by its dry and awkward sound	PDM Bitstrm	•		•		•	•	119
Linn Karik	1497	VG	Based on Linn's original CD transport, this player sounds dry but very positive, detailed and engrossing	Crystal BS	•	•				•	119
Marantz CD-52II	230	G	Launched to usurp the position of its own CD-52SE, the '52II is less colourful but equally appealing	PDM Bitstrm	•	•			•	•	119
Marantz CD-52IISE	300	G	A new mains transformer plus the full complement of internal mods has recaptured the frothy if startling sound of the original '52	PDM Bitstrm	•	•			•	•	119
Marantz CD-72SE	600	G+	A recommendation just eluded the grasp of this superbly built player thanks to its very polished but restrained sound.	bitstream	•	•			•	•	112
Mission DAD5	300	A+	Similar to Philips' 600-series: lively, plenty of space and full of 'bounce' but a little too eager to impress in the short term	bitstream	•	•				•	107
Musical Fidelity CDT	5019	G+	Oddball player with a cheap top-loading transport and appaling digital gubbins yet saved by the euphony of its valves!	hybrid							112
NAD 502	220	G	This updated version of the 5425 has traded the spontaneity of its forebear for a more precise but mechanical style of music	MASH/PWM	•	•				•	119
Nakamichi CD-4	380	A-	This looks new enough but sounds little better than the older CD Player 4 upon which it is firmly based.	18-bit	•	•			•	•	124
Nakamichi MB-4s	300	G	Entry-level MusicBank player that sounds like it's come from a studio control room: plenty of dynamics and detail but little stereo depth	16-bit	•					•	132
Onkyo DX-C110	350	G-	A big and beefy 6-disc carousel that strides confidently through rock and pussyfoots around gentle ballads	Bitstream	•					•	132
Philips CD732	140	A+	A cross between Philips CD690 and CD920 is no more technically accomplished but encourages a very lively and entertaining sound	SAA7341	•	•			•	•	128
Philips CD920	160	A+	A new budget player with an appalling technical record but a surprisingly clean if understated sound	SAA7341	•	•			•	•	119
Philips CD930	200	G-	Featuring digital circuitry similar to Marantz's players but a sound that's a little too ripe and soft.	PDM Bitstrm	•	•			•	•	112
Philips CD950	350	G+	Philips' top 900-series player is the first to employ its advanced DAC7 chipset. Sounds very crisp, clear and confident.	DAC7	•	•			•	•	112
Pioneer PD-102	150	A	Smooth and littered with plenty of underlying detail, this budget player remains distinctly unadventurous	PFM Bitstrm	•				•	•	128
Pioneer PD-S802	350	G	Once again Pioneer's LLC topology only served to split and confuse the listening panel. It's good, but quirky!	PFM BS	•	•	•			•	124
Pioneer PD-M701	330	G+	A 6-disc multichanger from the originators of the breed. A little untidy perhaps, but still sounds fresh, dynamic and exciting	PDM Bitstrm	•				•	•	117
Pioneer PD-M901	450	A	Another 6-disc multichanger based on the PD-M701 but with the addition of various 'Sound Field' options. Listening is hard work	PDM Bitstrm	•				•	•	117
Pioneer PD-S901	500	G+	The very refined but confident, crisp and powerful sound of the '901 snatches Pioneer's LLC concept from the jaws of defeat	PFM Bitstrm	•	•	•			•	119
Quad 67	790	E	Deceptively sleek in appearance but with a powerful, fluid and captivating sound reminiscent of Meridian's 206.	Crystal BS	•	•				•	124
Rotel RCD-945AX	230	G	Based on the same CD-player-on-a-chip as Philips CD690 but with Improved execution and build.	SAA7341	•	•				•	124
Rotel RCD-965BX	300	E	An exceptionally refined bitstreamer: transparent, exquisitely detailed and powerfully emotive. A landmark player	PDM Bitstrm	•	•				•	100
Sansui CD-X317	250	A	Not in the same class as older CD-X311mkII. Same technology but the sound is neither as responsive or engaging	MASH/PWM	•	•			•	•	107
Sansui CD-X617	350	A	This 'double-DAC' version of the CD-X317 is more impressive, sounding light and tizzy with pop but dull with classical CD's	MASH/PWM	•				•	•	112
Sansui CD-Alpha 717DR	1560	G+	A beautifully constructed if rather dated flagship player with an equally sedate and unadventurous sound.	MASH/PWM	•	•	•	•	•	•	124
Sherwood CD-3020R	130	G	Although this budget wonder has little respect for musical convention, what emerges is still remarkably entertaining	NPC bitstrm	•				•	•	119
Sherwood CD-5010R	160	G+	A warm, detailed and enjoyable performance from a solidly built but affordable package.	PDM Bitstrm	•				•	•	124
Sherwood CDC-5030R	200	A-	The replacement for the successful 5-disc CDC-5010R sounds messy, disjointed and generally unpleasant. A great disappointment	Bitstream	•				•	•	132
Sony CDP-X303ES	550	A+	A disappointingly lean and inconsistent result from a player that puts the 'high' in technology if not fidelity	PLM Bitstrm	•	•	•	•	•	•	124



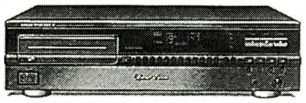
KENWOOD KA5040R AMPLIFIER
2 × 80W RMS, R/C, Source Direct, MM-MC, A/B Spk O-P
WAS £299.95 NOW £199.95



ROTEL RA-920AX AMPLIFIER
High quality, 2X 20W, 5 inputs, inc. MM Phono.
WAS £129.95 NOW £99.95



SONY TCK 611S CASSETTE DECK
'WHAT HI-FI AWARD WINNER'
3 Head + Motor, Dolby S noise reduction Calibration system 'What Hi-Fi Award Winner'
WAS £329.95 NOW £289.95



MARANTZ CD52 Mk2 CD PLAYER
'WHAT HI-FI AWARD WINNER'
Bitstream Conversion, FTS, Random play, Digital outputs, Synchro Recording etc.
WAS £229.90 NOW £179.95



MARANTZ PM44SE
Audiophile 2X 45W RMS, Bi-wire spk o/p
NOW IN STOCK!!

CLEARANCE ITEMS

Loudspeakers:

Boston A60, was £139.95 ..... **NOW £89.95**
Bose 301, bk, was £329.95 ..... **NOW £289.95**
Celestion 3rd Dimension, was £189.00
NOW **£129.00**
Jamo & Studio Power ..... **TO CLEAR**
Infinity Ref. 20, was £249.95 ..... **NOW £149.95**
Tannoy 615 mk1 (bk) was £749.99
NOW **£599.95**
Tannoy 613 mk1 (bk) was £599.99
NOW **£469.95**
Tannoy 603 Mk1, was £129.99
NOW **£94.95**
W'dale DIA.IV was £119.95
NOW **£59.95**
Mission 763i, 764i & 765i ..... **TO CLEAR**

Amplifiers:

Kenwood KA3020, 3050R, 4040R ..... **TO CLEAR**
Marantz PM80 (Ex-demo)
was £399.90 **NOW** **£229.95**
Marantz PM32 Amp, was £139.90
NOW **£99.95**
NAD 2400 Power-amp, was £419.95
NOW **£359.95**
NAD 2100 Power-amp, was £299.95
NOW **£259.95**
NAD 1000 Pre-amp, was £199.95
NOW **£169.95**
Pioneer A400 was £279.95
NOW **£219.95**
Rotel RA940BX, was £249.95
NOW **£189.95**
Rotel RA930AX Amplifier was £175.00
NOW **£149.95**
Rotel RA840BX4, was £249.95
NOW **£149.95**
Sony TAF170, was £109.95
NOW **£84.95**

CD Players:

Aiwa XC750, was £199.95
NOW **£159.95**
Aiwa XC950, was £249.95
NOW **£199.95**
Kenwood DPM6650 Multiplay was £269.95
NOW **£209.95**
Marantz CD72, was £399.95
NOW **£299.95**
Pioneer PDS801, was £329.95
NOW **£269.95**
Mission DAD5 was £299.95
NOW **£249.95**
Rotel RCD955AX, was £279.95
NOW **£215.00**

★★CALL FOR FURTHER INFORMATION ON CLEARANCE ITEMS★★

SOUTH LONDON HI-FI

210 BRIXTON HILL · LONDON SW2 1HE
Tel: 081-674 4433/2033 · Fax: 081-674 1521

344 COLDHARBOUR LANE
LONDON SW9
Tel: 071-733 6893

161 CENTRAL ROAD
WORCESTER PARK, SURREY
Tel: 081-330 2018

- ★ Authorised Agents of many leading brands
- ★ Please call for the best prices of single items and system packages.
- ★ MAIL-ORDER & EXPORT facilities avail. (Mainland deliveries 24hrs)
- ★ Listen before you buy!! (Demo avail)
- ★ 0% CREDIT & EXTENDED FINANCE to personal callers.
- ★ For high quality and friendly service CALL US NOW!!!
- ★ OPEN 9.00AM-6.00PM Mon to Sat (closed Weds).



MARANTZ DD.82 DIGITAL COMPACT CASSETTE
Highest standard 18 bit A/D convertor Analogue cassette playback.
WHAT HI-FI? NOMINATED BEST CASSETTE DECK.
NOW IN STOCK £399.99.

AIWA, B&W, CELESTION, DENON, KENWOOD, MARANTZ, MISSION, NAD, NAKAMICHI, PIONEER, ROTEL, TANNOY, WHARFEDALE, YAMAHA and many others available from stock.



Alphason, Apollo, Pivotelli and Target Racks & speaker stands... all available at competitive prices.

PLEASE CALL FOR THE BEST PRICES OF SINGLE ITEMS AND SYSTEM PACKAGES

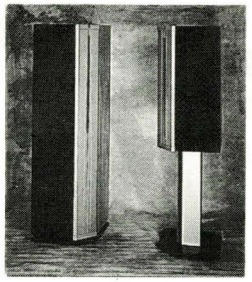
Suggested Systems

The following suggested system package includes the NAD 5120 Turntable. Alternative items: ie CD Player/Turntable/Cassette deck are available options.

SPEAKERS	JPW Sonata Wharfedale DIA.4 Celestion 1 Mission 760i	Tannoy 603 Celestion 3 Boston HD5	Mission 761i BW.DM600i Tannoy 605 AR.152 Infinity Ref/20	Tannoy 607 Mission 780 Boston HD8	BW.DM610i Mission 762i Rogers LS2A2 Infinity Ref/40	Rogers LS4A2 BW.DM620i (add £100) Mission 763i Celestion 3/6000 (add £200)
AMPS Kenwood KA3020	£295.95	£309.95	£345.95	£369.95	£409.95	£429.95
Kenwood KA5040R	£349.95	£369.95	£419.95	£429.95	£459.95	£482.95
Marantz PM40SE	£316.95	£335.95	£379.95	£399.95	£429.95	£460.95
Pioneer A300X	£349.95	£369.95	£419.95	£429.95	£459.95	£489.95
Pioneer A400	£409.95	£419.95	£459.95	£479.95	£509.95	£539.95

T/T & C.D. PLAYER OPTIONS
Aiwa XC750, £89.00
Denon DCD695, add £89.00
Denon DCD1290, add £209.00
Marantz CD42/2, add £99.00
Marantz CD52/2, add £120.00
Marantz CD72, add £199.00
NAD 502, add £99.00
Pioneer PDS801, add £189.00
Dual CS503-2, add £60.00
Dual CS505-4, add £99.00
Project 1, add £60.00
Thorens TD280IV, add £120.00
Systemdek 11X/900, add £329.00
Manyothers available on request

CELESTION
5000 WNT
HIGH QUALITY LOUDSPEAKER
Acoustic Ribbon Technology
100w Bi-wired, real wood veneer
INC 'K' Stands
WAS £1,099.00, NOW £479.00



Amplifiers:

Aiwa XA950 ..... **£229.95**
Denon PMA480R **£219.99**
Harman Kardon HK6250 ..... **£279.95**
Marantz PM44SE NEW! **£199.95**
NAD 304 ..... **£239.95**
Pioneer A400X **£299.95**
Rotel RA935BX **£199.95**
Technics ..... **STOCKED**
Yamaha AX570 ..... **£289.95**

CD Players:

Aiwa XC300 ..... **£149.99**
Aiwa XC750 ..... **£199.95**
Denon DCD595 ..... **£179.99**
Denon DCD1290 ..... **£329.99**
Kenwood DP2050 ..... **£169.95**
Kenwood DP7050 ..... **£349.95**
Marantz CD53 ..... **£199.90**
Marantz CD63 ..... **£249.90**
Marantz CD52SEmk2 ..... **REDUCED TO CLEAR**
NAD 501 ..... **£179.95**
NAD 502 ..... **£229.95**
Pioneer PDM602 ..... **£269.95**
Rotel RCD965BX **£299.95**
Rotel RCD965BX Discrete **£375.00**
Technics SLPS620A **£199.95**
Yamaha CDX570 ..... **£239.95**

Cassette Decks:

NAD 6100, was £299.95 **NOW** **£259.95**
Kenwood KX5030, was £199.95
NOW **£149.95**
Aiwa ADF450 ..... **£119.95**
Aiwa ADF810 3HD **£229.99**
Denon DRM540 ..... **£159.99**
Denon DRS810 3HD **£299.99**
Denon DRW760 Twin **£249.99**
Kenwood KX-5050 ..... **£229.95**
Marantz SD53 ..... **£229.90**
Marantz SD63 ..... **£269.90**
Marantz SD415 ..... **£209.90**
Nakamichi DR3 ..... **£349.95**
NAD 602 ..... **£199.95**
Sony TCK-611S 3HD **£289.95**
Technics ..... **STOCKED**
Yamaha KX-260 ..... **TO CLEAR**

Tuners:

Denon TU260L **£119.99**
Denon TU580RD/RDS **£219.99**
Marantz ST53 ..... **£169.90**
Marantz ST40/50L ..... **TO CLEAR**
NAD 402 ..... **£169.95**
Rotel RT930AX **£175.95**
Rotel RT950BX **£199.95**
Sony STS311LB **£179.95**

AV Amps/Receivers:

Denon AVC3020 ..... **£729.99**
Denon DRA345R **£249.95**
Denon DRA645RD/RDS **£319.95**
Kenwood KRA4050 ..... **£229.95**
Kenwood KRV6060 RDS **£349.95**
Kenwood KRV7050 RDS **£399.95**
Marantz PM700AV **£449.90**
Marantz SR53 & 63 ..... **STOCKED**
NAD 705 ..... **£329.95**
NAD 701 ..... **£259.95**
Yamaha RX V470 ..... **£399.95**
Yamaha DSP E200 ..... **£369.95**
Yamaha DSP A500 ..... **£449.95**
Yamaha DSP A1000 ..... **£899.95**

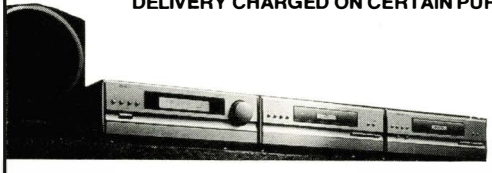
Turntables:

Dual CS435 ..... **T.B.A.**
Dual CS503-2 ..... **£179.95**
Dual CS505-4 ..... **£229.95**
NAD 5120 ..... **£119.95**
NAD 533-Rega 250 ..... **£199.95**
Project .5 Ort. OM3 cart. **£145.00**
Project 1 Ort. 510 cart. **£185.00**
Project 2 Ort. MCI cart. **£249.95**
Soundlab & KAM (DISCO) ..... **STOCKED**
Systemdek 11X900+RB250 ..... **£329.95**
Systemdek 11XE900 exc T/A **£329.95**
Technics SL1210 Mk2 ..... **STOCKED**
Thorens TD180+AT91 ..... **£179.95**
Thorens TD166 V1+Rega RB250 ..... **£299.95**
Thorens TD280 1V+AT95E **£269.95**

Loudspeakers:

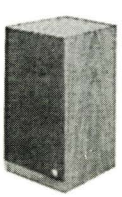
Bose AM3Mk2 ..... **STOCKED**
Bose AM5 Mk2 ..... **STOCKED**
B&W DM600i,610i,620i ..... **STOCKED**
Boston HD3,5,7,8,9/SW10 ..... **STOCKED**
CELESTION ..... **STOCKED**
Cerwin Vega AT/DC&VS ..... **STOCKED**
Jamo Pro 200/300/400 ..... **STOCKED**
Mission 760i **£129.90**
Mission 760i/SE **£149.95**
Rogers LS2A/2 ..... **£229.95**
Rogers LS8A **£499.95**
Tannoy SIXES Mk 2 ..... **STOCKED**
And many others, call for further details!

WE ARE ALWAYS COMPETITIVE – TELL US IF YOU CAN BUY CHEAPER. FREE STANDS WITH SELECTED SPEAKERS, DELIVERY CHARGED ON CERTAIN PURCHASES. MAIL-ORDER ENQUIRIES PHONE BRIXTON HILL BRANCH FOR DETAILS



DENON MINI SYSTEMS
D65, 90, 110 & 250
NOW AVAILABLE

SPECIAL OFFER – NEW!!!
MARANTZ SR-63 RECEIVER
MARANTZ SD-53 CASSETTE DECK
+
MISSION 761i LOUDSPEAKER
WAS £649.00 NOW £499.95



CASTLE WARWICK
High Quality 2 Way Speaker
10 - 75W, black finish
(LIMITED STOCK)
WAS £229.95 NOW ONLY £129.95

CD players continued

Product	£Price		Comments	DAC type	Electrical digital output	Optical digital output	Variable output	Headphone socket	Track entry keypad	Remote control	Issue No.
Sony CDP-C345	230	A+	Sony's Hybrid Pulse DAC sounds great in the CDP-311 but in this 5-disc carousel it provides a mere skeleton of a performance	PLM Bitstrm	•				•	•	132
Sugden SDT-1	850	A	Bearing in mind Sugden's SDA-1 converter lies at the heart of this player, its unpredictable performance is disappointing	16-bit	•	•					119
Teac CD-P3500	200	A	A well-meaning attempt to pare-down the CD-P4500 results in a similar looking player with a thoroughly uninspiring sound	PDM Bitstrm	•	•			•	•	112
▲ Teac CD-P4500	280	G	TEAC's first genuine 1-bit player its sound described as having a certain 'organic warmth', very composed and easy-going.	PDM Bitstrm	•	•			•	•	107
Teac VRDS-10	770	A+	A basic analogue stage compromises the potential of TEAC's superb engineering and digital electronics. Lacks bass energy	DAC7	•	•	•			•	119
▲ Technics SL-PG340A	150	A+	No more or less impressive than the old SL-PG320A, this new version is attractive enough if slightly restrained	MASH/PWM					•	•	128
▲ Technics SL-PG440A	170	G	This mix of the SL-PG520 and '420 fails to benefit from the strengths of either and only just achieves recommendation.	MASH/PWM	•			•	•	•	124
▲▲ Technics SL-PG520A	180	G+	A cracking player. Superb clarity and dynamics, thrilling but musically involving too	MASH/PWM	•		•		•	•	107
▲▲ Technics SL-PS620A	200	G+	A costlier, tarted-up version of the SL-PG520A that loses very little in the way of clarity, sparkle or in compelling dynamics	MASH/PWM	•		•		•	•	112
Woodside WS2	1095	G+	Responded well to our jazz and classical selection but sounding bright and grainy with the pop CD's	16-bit	•	•					95
Yamaha CDX-670	290	G-	Yamaha has retained the CDX-660 casework but cut costs with a new multi-task IC that's not entirely de-bugged.	PDM Bitstrm	•	•		•	•	•	124



CD transports and DACs

A CD player can be split into two basic components; the disc drive or transport, and a device which turns the digital bitstream coming off the disc into an analogue audio signal. This is called a digital to analogue convertor or DAC. Although most players are contained in a single box, expensive players are usually two box affairs.

Although many of these units will be purchased as matching pairs, a DAC can also be used to upgrade an existing CD player. Thus an early machine with a satisfactory transport can be rejuvenated by adding an outboard DAC.

The columns on the right indicate the facilities available on a transport or DAC. Remote control is self explanatory. The existence of electrical and/or optical digital in and outputs is pretty fundamental to transports and DACs, as a rule electrical outputs are the most desirable. Class 1 transports are those with an output whose crystal clock accuracy that's better than ± 50ppm (parts per million), certain DACs won't lock onto transports with a lower clock accuracy. DAC type shows the specific convertor chip employed. In much the same way that an amp's output is not indicative of its sound quality, the chip used in a DAC isn't the only determining factor in a CD player's sound. Phase inversion in the digital domain can make quite a big difference if you've got a high resolution system and golden ears.

CD transports

Product	£Price		Comments	Electrical digital output	Optical digital output	Remote control	Class 1	Issue No.
▲ Arcam Delta 250	750	G+	Arcam's best effort yet is a new design based on the Philips CDM9 transport; specification includes Sync Lock facility.	•	•	•	•	130
▲ Counterpoint DA-11E	1495	VG	By rights this transport should be highly incompatible yet it delivers a remarkably vivid and natural sound.	•	•	•	•	130
▲ Meridian 200	895	G+	Broadly compatible and offering a light, fresh and very bubbly sound that is both natural, engaging and unfatiguing	•	•	•	•	96
TEAC P-2	3500	G	Beautifully styled and constructed but sound is bleached and generally less inspiring than that of the P-10	•	•	•	•	96
TEAC P-2s	4300	A+	The latest version of Teac's luxury P-2 transport sounds as over-engineered as it looks.	•	•	•	•	130
▲ Theta Data Basic	1990	G+	A mild-mannered transport capable of marvellous results with lively-sounding outboard converters.	•	•	•	•	130
Wadia 8	3195	G	Includes a budget version of Teac's VRDS mechanism in a fancy case; just too expensive for the performance on offer.	•	•	•	•	130

DACs

Product	£Price		Comments	Electrical dig output	Optical digital output	Remote control	Class 1	Issue No.
▲▲ Arcam Black Box 50	450	VG	A very measured and sophisticated sound from a DAC that leaves plenty in reserve to accommodate future upgrades.	Hybrid	•	•	•	127
▲ Audio Alchemy DAC-in-the-Box	200	G	Despite its slightly veiled sound this giveaway DAC may still rescue the oldest of players from obsolescence.	18-bit	•	•		127
▲▲ Audio Alchemy DDE v1.0	420	VG	A very sweet and seductive sounding unit that gives good results with a wide range of CD players/transports	Bitstream	•	•	•	101
Audiolab 8000DACmkII	750	G	Just as smooth and refined as its predecessor yet, sadly, still manages to obscure the passion or fire of music.	DAC7	•	•	•	127
Audio Note DAC 1	600	G	An oddball DAC with manual de-emphasis switching. Needs a high preamp input impedance if bass is not to suffer.	20-bit	•	•		127
Audio Synthesis DSM-M	1234	G+	A weighty but neutral and highly calculated performer, best suited to transports like the P-10, despite Sync Lock facility.	20-bit	•	•		113
Beard DAP-1	1250	A-	Clad in a wooden case this marriage of digital technology and valves has hit the rocks, a disappointingly flat sound	16-bit	•	•	•	113
DPA Digital Little Bit II	400	G	A new on-board mains filter promotes a smoother and richer sound at the expense of some life and vitality.	SAA7350	•	•		127
▲ DPA Digital Bigger Bit	695	G	With either P-10 or Meridian 200 transports it delivers a very taut and dynamic sound, bathed in an open acoustic	DAC7	•	•		103
▲ Meridian 563	695	G+	Warmer but no less detailed than the earlier 200-series, the 563 really comes into its own with top-flight CD transports.	Crystal	•	•	•	127
Meridian 606 DAC7	1350	G	By refining the 203's sound further Meridian have also tempered its vibrancy and 'life' . Fickle with other transports	DAC7	•	•	•	101
Micromega Duo BS2	600	G	Has a tendency to sound light, airy and 'fast' but it can also become a little hard or - fatiguing with some digital outputs	SAA7321	•	•	•	101
Micromega Microdac	300	A+	Described as a modest but entertaining performer, achieving its sweetest balance with Arcam's D170.3 transport.	SAA7321	•	•		113
▲ Mission DAC5	300	G+	Another modest DAC but one capable of a lean but clean and detailed sound that's typical of the DAC7 breed.	DAC7	•		•	113
▲ Musical Fidelity Tubalog	499	G+	The animated character of the Tubalog ensures it's a great upgrade on budget CD players.	18-bit	•			127
▲▲ QED Digit	139	G+	Bearing in mind its expressive but very forgiving performance the Digit is almost embarrassingly cheap	PDM Bitstrm	•			113
Select Systems Dacula	400	G	The overly warm and heavy bass of this DAC is quite atypical of the Crystal Bit Stream DAC.	Crystal	•			127
▲ Sugden SDA-1	749	G+	A pleasant surprise from the fuddy-duddies of audio, judging by its 'masses of high resolution detail and tremendous dynamics'	TDA1541	•			113
Woodside DAC1	909	G	Fine but slightly dated and costly package in performance terms - but flexible, musical and t well built	16-bit	•	•		87
▲ Woodside DAC2	509	G+	Offering a sharp and dynamic sound, all the more captivating for its lack of graininess and 'tizz'. A reliable upgrade	16-bit	•			101

NEW FROM DENON



D-F10 HIFI MIDI COMPONENT SYSTEM

Including UPA-F10 Integrated Amplifier ● UTU-F10 AM/FM Stereo Tuner ● UCD-F10 Compact Disc Player ● UDR-F10 Single Cassette Deck (Speakers not included)

£999.99



NEW

RECEIVER DRA 365 RD

● RDS (Radio Data System) ● Signal Level Divided Construction ● Motor Driven Remote Volume Control ● AM/FM 40 Station Random Preset Memory

£249.99

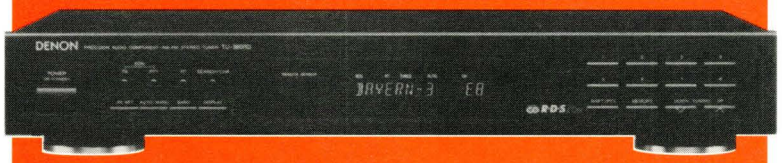


NEW

TUNER-TU 380 RD

● RDS (Radio Data System) ● Manual Character Input ● Remote Control Sensor ● AM/FM 40 Station Random Preset Memory

£189.99



NEW

CD PLAYER-DCD 615

● 20-bit 8 times Oversampling Digital Filter with Noise Shaper ● Real 18-bit LAMBDA Super Linea Converter ● Digital Attenuator ● Sync Record Function

£179.99





NEW

CD PLAYER DCD 825

● UK Specified Machine ● 100% UK Circuit Design ● High Performance Dual-Mono Multi-bit Design

£219.99

RADFORDS

Sound Advice · Perfect Vision

BRISTOL	BATH	EXETER	TORQUAY	PLYMOUTH	WINDSOR
52/54 Gloucester Rd.	12 St James St West	28 Cowick St	6 Fore St	107 Cornwall St.	43 King Edward Ct.
Tel: 0272 428247	Tel: 0225 446245	St Thomas. Tel: 0392 218895	St Marychurch. Tel: 0803 326723	Tel: 0752 226011	Tel: 0753 856931

Transport/DAC combos

	Product	£Price		Comments	DAC type	Remote control	Electrical digital output	Optical digital output	Variable output	Headphone socket	Track entry keypad	Issue No.
▲▲	Arcam Delta 250/Black Box 50	1200	VG	A very sophisticated combination that sounds silky-smooth without appearing soft or sugar-coated. A bargain two-box player.	Hybrid	•		•	•		•	133
	Audio Alchemy DDS/DTI/XDP/P52	2047	A+	A multi-box combination with a Bit Stream DAC that is fundamentally more inspiring than its partnering transport.	DAC7	•		•		•	•	120
▲	Cyrus Discmaster/Dacmaster	1900	G+	A powerful-sounding and perhaps slightly heavy-handed combination that cuts right to the heart of its music.	20-bit	•		•			•	133
	DPA Digital T-I/PDM2mkII	3245	G	An ingenious combination that includes a clock-feed from the DAC to CD transport. Capable of astonishing results	DAC7	•		•	•	•	•	120
	DPA Digital T1/PDM 256	3890	G	A highly advanced duet with adjustable dither facility. Sadly its different settings only usher-in different compromises.	Bit Stream	•		•	•		•	133
▲	EAD T-1000/DSP-1000	2195	VG	A two-box player based on Pioneer's Stable Platter CD transport. Its music always sounds fast, furious and fascinating.	20-bit	•		•	•		•	120
	Linn Karik/Numerik	2495	G+	Partnering Linn's Numerik DAC with its Karik CD player (as transport) provides a dry, dynamic but also slightly dirty sound.	20-bit	•		•			•	120
	Meridian 200/263	1390	G	Now updated with Crystal Bit Stream technology, this popular duet has unfortunately lost much of the charm and poise of the original.	Bit Stream	•		•			•	120
	Meridian 500/563	1670	A+	Combined with its own 500 transport, the recommended 563 sounds disapointingly thin, brash and uncomfortable.	Crystal	•		•	•		•	133
▲	Meridian 602/606	3100	VG	Meridian's top-of-the-range two-box player looks and sounds both distinctiue and elegant, the perfect partner for a cultured system!	DAC7	•		•	•	•	•	120
▲	Monarchy Audio DT-40A/M-33	3090	VG	An intriguing combination that provides a beefy and enthusiastic performance via its balanced AES/EBU connection.	20-bit	•		•		•	•	133
	Proceed PDT3/PDP3	5214	G+	The third in a series of unusual transport/DAC combinations and a pairing that retains a powerful, confident and rugged sound	20-bit	•		•	•		•	120
▲	PS Audio Lambda/Ultralink Two	4900	VG	In direct contrast with its appearance, this duet positively sparkles with colour and resonant detail.	20-bit	•		•	•		•	133
▲▲	Teac P-700/D-700	1500	VG	They may lack the resolution of high-end colleagues but still sound warm, bubbly and perpetually entertaining.	20-bit	•		•	•		•	120
	Teac P-2s/D-2	6000	A-	Teac's VRDS statement looks a million dollars but sounds rather thin and uninvolving. A great disappointment.	18-bit	•		•	•	•	•	133
	Theta Data Basic/Cobalt 307	2696	G+	A cautious and slightly over-refined combination that fails to make the best of either component.	Hybrid	•		•	•		•	133



DAT players

DAT, or digital audio tape, has been on the market for quite some time now but has never really 'made it' as a consumer medium, probably due to the fact that very little prerecorded software has been made available.

In the last year or so it has began to carve itself a niche at the top end of the market replacing reel to reel tape recorders as the audiophile's tape based medium.

The DAT standard specifies a 48kHz sampling rate, which is higher than CD, so direct copying in the digital domain is only possible on those machines with dual sampling frequencies, ie 48kHz and 44.1kHz. Some machines also record at 32kHz to give a longer recording time for a given length of tape, this is shown in the LP mode column.

The optical and electrical in/outputs in the column headings are for digital signals, analogue in/outputs are universal. The AES/EBU and S/PDIF socketry is for connection to professional components and typically DAT machines with this

DAT players

Product	£Price		Comments	LP mode	Remote control	Optical in/out	Electrical in/out	AES/EBU in/out	S/PDIF in/out	Issue No.
JVC XD-Z1010TN	900	A+	Ambitious but ultimately disappointing deck with an opaque musical delivery and more features than you can shake a stick at	•	•	•	•			111
Panasonic SV-3700	1111	A	Slick, powerfully equipped, this pro DAT has a clear, quick and colourful sound somewhat lacking in weight and substance		•			•	•	111
Tascam DA-30	1199	A+	Interesting pro DAT deck with solid, tangible sound quality which is nevertheless lacking in analysis		•			•	•	111



Headphones

There are a variety of different approaches to headphone design. Amongst the more expensive models, electrostatic drivers are used in open-backed phones. The majority of these come with some form of transformer which usually takes the signal from the speaker terminals on the amplifier, but some can run from a pair of tape out sockets.

The more down to earth (see affordable) models feature dynamic, or moving coil, drivers in circular open or closed backed designs. The advantage of open backs seems to be a correspondingly open sound, but one can also of course hear external noises. Closed-back designs are useful in situations where it is necessary to block out background noise, but they aren't generally as good sonically.

Another means of distinguishing different types is the way they sit on your head. There are three styles: circumaural models enclose the ear and rest on the side of the head; supra-aural designs feature a flat pad which presses on the outer ear (pinna); and intra-aurals rest inside the ear itself, and are popular with personal stereos.

Headphones

	Product	£Price		Comments	Type	Open back	Closed back	Dynamic	Electrostatic	Issue No.
	AKG K44	42	A	Good quality personal oriented phone, could have a better sense of space but is musically quite communicative	Supra-aural	•		•		99
	AKG K70	30	A	Cossetting on the ears, but not on the brain, thanks to coarse, shut-in sound.	Supra-aural	•		•		133
	AKG K135	46	A	The K135s don't live up to the usual AKG standards, though they do have the ability to reproduce rhythm well	Supra-aural	•		•		63
▲	AKG K240 Monitor	82	G	Something of a classic, these AKGs are very user friendly in all respects; sonically on the warm side of neutral	Circumaural	•		•		63
▲	AKG K280 Parabolic	117	G+	A very revealing and unusual twin driver design that uses the same principle as a satellite dish to beam sound into the ear	Circumaural	•		•		63
▲	AKG K340	191	E	Heavyweight cans in most respects, the K340 with its electrostatic tweeter is a very revealing headphone	Circumaural		•	•	•	75
▲	AKG K400	118	VG	Comfortable over long sessions. Sound is exquisitely detailed, dynamic and uncoloured	Supra-aural	•		•		121
▲	AKG K500	138	G+	Open and clear, they reproduced music with impressive definition, balance is on the light side but transparency is high	Circumaural	•		•		111
▲	AKG K1000	646	E	One of the best dynamics on the market, hooks directly to speaker outputs and makes much of the competition sound lame	Extra-aural	•	•	•	•	99

HI-WAY HI-FI LTD

CAR STEREO • HI-FI • VIDEO

EST '78

For the Best Deals in Town - and that's a Promise!!

We will Match or Beat any Price from an Authorised Dealer for Goods in Stock. Clearance Lines, Special Offers, Ex-Display Equipment Excepted.

Mail Order Hot Line 071 723 5251

EXPORT CENTRE Tax Free Goods for Overseas Visitors

CLEARANCE BARGAINS

Yamaha CDX-570

Was ~~£239~~ Now £179



CD PLAYERS	WAS	NOW
Denon DCD-595	£179	£159
Denon DCD-695	£199	£169
Denon DCD-890	£269	£229
Rotel RCD-955AX	£230	£185
Yamaha CDX-670	£290	£239
Yamaha CDX-660	£249	£199
CASSETTES	**WAS**	**NOW**
Rotel RD-945AX	£149	£125
Rotel RD-955AX	£199	£165
Yamaha KX-260	£160	£129
Yamaha KX-360	£199	£169
FM TUNERS	**WAS**	**NOW**
JVC FX-342	£129	£79
Philips FT-920	£139	£99
Pioneer F-676	£199	£149
Pioneer F-757	£279	£209
AMPLIFIERS	**WAS**	**NOW**
Philips FA-920	£199	£129
Rotel RA-940BX	£199	£175
Rotel RA-920AX	£129	£105

Portable DCC & Mini Diusc

DIGITAL CD	WAS	NOW
Panasonic RQ-DP7	£399	£199
MINI DISC	**WAS**	**NOW**
Sony MZ2P	£399	£299
Sony MDS101	£699	£629

WHARFEDALE

CRS-3 Loudspeaker

100w Max Input • 8Ω

Was ~~£129.99~~



SAVE £50 Now £79.99

TECHNICS SC-CH750

Mini Separates Hi-Fi

Was £899 — 50wpc • Surround Sound MASH 1-bit CD DOLBY Hx-Pro

Now Only £679.00

All Stock New & Guaranteed

AMPLIFIERS



PHONE FOR THE VERY BEST DEALS IN TOWN

DENON (2 Yr Guarantee)	
PMA-2501I	30wpc
PMA-3501I	50wpc
PMA-480R	50wpc
KENWOOD	
KA-1030	65wpc
KA-3050R	45wpc
KA-4050R	70wpc
KA-5020	80wpc
KA-5050R	95wpc
KA-7050R	100wpc
PIONEER	
A-102	30wpc
A-202	40wpc
A-300X	40wpc
A-602	80wpc
A-502R	70wpc
A-400X	60wpc
A-351R	70wpc
TECHNICS	
SU-A600	40wpc
SU-A700	45wpc
SU-A800	55wpc
SU-A900	80wpc
SU-1220	30wpc
SU-1320	45wpc
YAMAHA (2 Yr Guarantee)	
AX-570	100wpc

AV AMPLIFIERS & RECEIVERS

CINEMA SOUND

DOLBY SURROUND PRO • LOGIC

PHONE FOR THE VERY BEST DEALS IN TOWN

DENON (2 Yr Guarantee)	
AVC-3530	110wpc
AVC-1530	70wpc Rear Dlx
AVC-3020	80wpc Rear Dlx
KENWOOD	
KA-V8500	55wpc
KA-V7700	100wpc
KR-A4060	60wpc
PIONEER	
VSA-D802S	55wpc
VSA-A701S	55wpc
VSX-452	50wpc Rear Dlx
SONY	
TA-AV570	70wpc
YAMAHA (2 Yr Guarantee)	
DSP-A2070	3 Chn Rear Dlx
DSP-E200	3 Chn
DSP-E580	3 Chn NEW
DSP-A780	5 Chn NEW
DSP-A970	7 Chn
RX-V470	50wpc Rear Dlx

CASSETTES



PHONE FOR THE VERY BEST DEALS IN TOWN

AIWA	
AD-F410	Hx-Pro
AD-F810	3 Head
AD-WX828	Twn 4-Rev
DENON (2 Yr Guarantee)	
DRM-540	Hx-Pro
DRM-710	3 Head
DRS-610	Hx-Pro
DRS-810	3 Head
DRW-760	Hx-Pro
KENWOOD	
KX-3050	Hx-Pro
KX-5050	3 Head
PIONEER	
CT-S420	3 Head
CT-S620	3 Head
CT-W420R	4 Rev
CT-W620R	Hx-Pro
CT-W820R	Rem Con
SONY	
TC-K611	Dolby S Rear Dlx
TECHNICS	
RS-TR373	T Rev NEW
RS-TR474	Hx-Pro NEW
RS-TR979	Tw Rec
RS-BX404	Hx-Pro
RS-BX646	3 Head
RS-BX747	3 Head

FM TUNERS



PHONE FOR THE BEST DEALS

DENON (2 Yr Guarantee)	
TU-260	" Winner"
TU-580	RDS Sys
KENWOOD	
KT-2060	3 Band RDS Sys
KT-3050	
SONY	
STS-311	"Winner"
TECHNICS	
ST-610	24 Mem
ST-G70	3 Band
ST-G470	39 Mem
ST-GT550	Rem Con RDS Sys
ST-GT650	

AV DEM ROOM In Both Stores Come and Listen

STOP PRESS!

"..... maintained superbly by the JBL" What Hi-Fi April 1994

JBL Control 1's REL Strata Six Speaker Pro-logic Package

IN STOCK £995

FANTASTIC SAVINGS ON MIDI & MINI HI-FI SYSTEMS

SAVE £150 ON THIS

SONY MHC 2800CD



Was ~~£549.99~~

Now £399.99

MONEY SAVERS	WAS	NOW
Aiwa Z650	£369	£349
Aiwa NSX-D707	£499	£420
Hitachi AX-12	£349	£298
Hitachi AX-15	£449	£380
JVC Adagio S2	£369	£315
Kenwood M47G	£749	£620
Kenwood M77MG	£999	£900
Kenwood M57MG	£849	£705
Kenwood UD551M	£649	£585
Sony 759CD	£1099	£935
Sanyo DCMS1	£299	£255
Technics CDX120	£699	£595
Technics SCCH950	£999	£849
Pioneer J30	£749	£599
Pioneer J50	£1149	£919
Pioneer N33	£379	£300
Pioneer N93M	£1049	£839

HI-FI SYSTEMS

PHONE FOR THE VERY BEST DEALS IN TOWN

AIWA	
LCX-09	10wpc
NXS-270	16wpc
NSX-340	20wpc
ZD-7000M	40wpc
NEW '94/95 RANGE IN STOCK	
AKAI	
MX-92	25wpc
DUAL VOLTAGE RX MINI'S IN STOCK	
DENON (2 Yr Guarantee)	
D-250	50wpc
D-65	30wpc
D-90	40wpc
D-110	40wpc
NEW DF-10 50W RDS IN STOCK	
· AVAILABLE AS SEPARATES ·	
JVC	
Adagio G7	50wpc
Adagio G9	55wpc
Adagio S30	NEW
UX-A4	15wpc
UX-T1	8wpc
W-58CD	50wpc
KENWOOD	
UD-951M	42wpc
M-28MG	40wpc
M-97MG	85wpc
PIONEER	
X-03T	37wpc
X-93M	66wpc
J-10	49wpc
J-20	50wpc
J-40	102wpc
NEW TECHNICS '94/95 RANGE IN STOCK	
GRUNDIG HI-FI RANGE IN STOCK	

THE CAR HI-FI SPECIALIST

JVC



KS-RX770 + XL-MK500 CD Changer System

Was £499 **£349.00**

PIONEER

KE-2730 Radio Cass 4x7 Watts Was £165 NOW £129

KE-3730 Radio Cass Dolby B NR Was £185 NOW £145

ALPINE

7980M In Dash 3 Tray CD Tuner Excluding Power Amps Was £679 NOW £529

KENWOOD

KDC 86R CD Tuner RDS-EON Exc. Power Amps Was £499 NOW £390

NEW JVC

KD-GT7 CD Receiver 4x25 Watts • 3 CD Changer 3 Band Radio • 24 Preset Memory

~~£570~~ PHONE FOR INTRODUCTORY PRICE

PIONEER SPEAKER BARGINS

TS-E1066 Was £85 NOW £27 pair
TS-E1399 Was £77 NOW £56 pair
TS-E1688 Was £66 NOW £48 pair
TS-G1033 Was £35 NOW £25 pair
TS-F1385 Was £35 NOW £27 pair

1994/95 PIONEER RANGE

• NOW IN STOCK •

WE OFFER A FULL FITTING SERVICE FOR CAR HI-FI, ALARMS AND MOBILE TELEPHONES

318-324 Edgware Rd

For the Best in Fridges, Freezers, Microwave Ovens, Vacuum Cleaners, Cookers, Washing Machines, Dishwashers and more come to:

THE ONE STOP SUPER STORE

Authorised Dealers For

Aiwa • Akai • Alpine • B&W • Bose • Blaupunkt • Canon • Casio • Cerwin-Vega • Clarion
Denon • Ferguson • Goldstar • Grundig • Hitachi • Hotpoint • JVC • Jamo • JBL • Kenwood
Mercury one2one • Mordaunt-Short • Mitsubishi • Panasonic • Pioneer • Philips • Pro Plus
Sony • Samsung • Sanyo • Sharp • Technics • Toshiba • Yamaha • Wharfedale • Zanussi

HI-WAY HI-FI LTD

318-324 Edgware Rd
London W2 1DY

Tel: 071 723 5251
Fax: 071 724 6101

Opposite Paddington Green Police Station
Near Edgware Rd (Bakerloo) Tube

ALSO AT

242 Tottenham Crt Rd
London W1 9AD
Tel: 071 636 5974
Fax: 071 323 4159

FREE DELIVERY On UK Mainland

We offer a Fast and Efficient Mail Order Service

CARRIAGE FREE* in Mainland UK

*Price Match & Clearance Lines Excepted

E & O E

Please supply the following goods:

.....

I enclose Cheque PO for £.....

or debit my Access Visa Amex Card No

.....

Expiry date.....

Name.....

Address.....

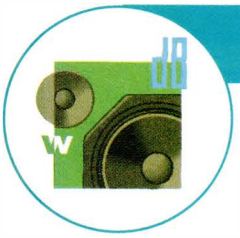
.....

.....Post Code.....

Day Time Tel..... HFC 8 94

Headphones continued

	Product	£Price		Comments	Type	Open back	Closed back	Dynamic	Electrostatic	Issue No.
	Audio-Technica ATH-M2a	28	A	No bass, little treble and acceptable midband from low-weight, comfiortable model	Supra-aural		•	•		133
▲	Audio-Technica ATH-910	90	G	The closed-back 910s are an improvement on the 909s with a nice rhythmic quality rarely found with headphones	Circumaural		•	•		55
	Audio-Technica ATH-9000	246	G	Electrets which connect to the amps speaker outputs, it sounds a little too smooth but would suit aggressive amps	Circumaural	•				111
	Beyer DT311	45	A+	Uncharacteriustically tight, unrefined soud quality from otherwise well engineered 'phone	Supra-aural	•		•		133
	Beyer DT411	59	G	A reasonable but not very thrilling headphone that doesn't really offer enough at the price	Supra-aural	•		•		111
▲	Beyer DT911	199	VG	Probably too revealing for many headphone amps these are very subtle and fine if expensive cans	Circumaural	•		•		111
▲	Beyer DT990	119	VG	A significant pair of dynamic headphones; they have a smooth and yet revealing neutral sound that is hard to criticise	Circumaural	•		•		55
▲	Jecklin Float Electrostatic	399	E	These electrostatics have an openness of sound rarely found in the breed, with good dynamic range to boot	Circumaural	•			•	55
▲▲	Jecklin Float Model One	75	G+	Whilst very unusual in appearance, the Floats give remarkable sound quality and openness at a reasonable price	Circumaural	•		•		55
▲	Jecklin Float Model Two	99	G+	Helmet shaped and pretty unflattering but open sounding and comfortable in the long term. te lack of adjustment	Circumaural	•		•		63
	JVC HA-D690	40	A	Competent but rather undistinctive cans, a bit middle of the road and well suited to aggressive sources	Supra-aural		•	•		111
	JVC HA-D910	65	A	Broadly acceptable if unexciting design with low level losses and some colourations	Circumaural		•	•		121
	Kenwood KH-1000	20	A-	First step up from a true mini: a near miniature which is cheap, comfortable and inoffensive	Supra-aural	•		•		121
	Koss TD/60	30	A-	AM radio like bandwidth limitations and colourations, and rather flaky build	Supra-aural		•	•		133
	Maxell HP-3000	30	P	Solid, smoothn sounding but congested and undynamic. Includes in-lead controls.	Supra-aural		•	•		133
▲	Pioneer SE-400D	37	G-	Acceptable if unexciting all-rounder, with good long-term comfort levels.	Supra-aural		•	•		133
▲	Ross RCH-300CD	20	P	In-lead controls are the highlights of this shoddy, sometimes agressive sounding design.	Supra-aural		•	•		133
▲▲	Sennhesier HD320	40	E	Superb value: articulate, accurate and musically effective, but location on ears can be uncertain.	Supra-aural	•		•		133
▲▲	Sennheiser HD440 II	35	A+	Still the one by which others at the price are measured, though now slightly leaden sounding, cold treble	Supra-aural	•		•		121
	Sennheiser HD 540II	120	G+	A good but not great headphone that due to its high impedance and efficiency should work well with most sources	Circumaural	•		•		111
▲▲	Sennheiser HD560 Ovation II	140	VG	Characteristic slightly heavy sound, but still the benchmark at this price level. High class sound and comfort	Circumaural	•		•		121
▲	Sony MDR-CD1000	170	G+	A fine sounding and comfortable headphone that's likely to work well with most sources	Circumaural		•	•		111
▲	Sony MDR-CD3000	350	G+	Better than most of the headphone outputs around so hard to make the most of, potentially up there with the electrostatics	Circumaural		•	•		99
▲▲	Sony MDR-CD350	30	G	Very impressive, possibly the most open sounding cheap closed back can around, lightweight in balance but transparent	Circumaural		•	•		99
▲	Sony MDR-CD450	45	G-	Fair acoustic isolation and comfortable curcum-aural construction, moderate sound quality	Circumaural		•	•		133
▲▲	Sony MDR-CD550	60	G+	A very competent headphone, creates a remarkable sense of space for a closed back design and sounds natural to boot	Circumaural		•	•		99
▲	Sony MDR-CD750	90	G+	Reasonably comfortable and eminently listenable these Sonys have characteristically good bass power and relaxed hf	Circumaural		•	•		111
	Sony MDR-CD850	100	A+	Very comfortable, and reasonable sound - better than most sealed designs - though hardness intrudes	Circumaural		•	•		121
▲	Stax Gamma pro/SRD-X pro	678	E	The Gamma pros are like a stethoscope for your hi-fi, revealing subtleties that many loudspeakers fail to resolve	Circumaural	•			•	63
▲	Stax Lambda Signature/SRM-T1	1644	E	The Signature when combined with the SRM-T1 valve driver must be the most transparent headphone available	Circumaural	•			•	72
▲	Stax SR Gamma	239	G+	The next model down the Stax range from the Lambda, the Gamma is an excellent headphone with little to criticise but the price	Circumaural	•			•	55
▲	Stax SR Lambda Pro/SRD-7SB	674	G+	An industry reference, frighteningly revealing, bringing across more information than loudspeakers costing twice as much	Circumaural	•			•	55
▲	Stax SR Lambda Pro/SRM-1	1239	E	Extracts layers of information that other headphones only hint at. The SRM-1 has more edge than the SRM-T1	Circumaural	•			•	75
	Technics RP-F10	100	A	Another very comfortable sealed model, modest sound isolation and uneven sound favouring bass	Circumaural		•	•		121
▲	Vivanco SR606	40	G+	Although slightly overblown at times, this model is easy on the aers and essentially enjoyable.	Circumaural	•		•		133
▲▲	Vivanco SR808 Classic	55	G	A new mid price reference from a new and interesting source. Good all round, no obvious shortcomings	Supra-aural	•		•		121



Loudspeakers

Last item in the hi-fi chain, to some extent the loudspeaker is merely the slave of what has gone before, capable only of reproducing a signal as good as it is fed. Nevertheless the distortions (colorations and stereo effects) introduced by loudspeakers (and rooms) tend to be more immediately obvious than those anywhere else in the chain, so careful choosing according to taste is very important.

The average loudspeaker consists of a smallish enclosure, much of which may have begun life as part of a tree, plus a couple of drive units hidden behind a removable grille. Inside the box lurks a simple electrical circuit known as a crossover, which divides the incoming (full range) signal into the right bits for the drivers to handle. Variations on the above formula are specifically identified in the entries. The designer's primary task is to balance the 'sensitivity' of the loudspeaker (how loud it goes for a given electrical input) against the bass extension (how low does it go), shown as 'bass from', for the given box size. After that such subtleties as coloration (or lack of it) and dispersion come into the equation.

Careful placement of the loudspeakers within the room is as important as the initial choice of model. See siting columns for guidance. For good stereo they need to be more or less the same distance from nearby walls. Models not ticked as 'floorstanding' will require rigid stands.

Loudspeakers

	Product	£Price		Comments	Size: HxWxD (cm)	Bass from (Hz)	Sensitivity (dB)	Site close to wall	Site in free space	Floorstanding	Issue No.
▲	Acoustic Energy Aegis 1	452	G	Rich and slightly heavy balance doesn't mask fine mid/treble coherence and transparency. Entry level for all-metal drivers	39x21x26	28	84		•		118
	Acoustic Energy AE1	950	G	Amongst the best miniatures around, shows exceptional mid focus and coherence, but is pricey and could be more agile.	29.5x18x25	48	84		•		102
▲	Acoustic Energy AE3	1650	G+	Solid, authoritative and impressively accurate – if a shade ponderous and slow	63x26.5x37	23	85		•		86
▲▲	Allison AL100	100	A	Loud and lively budget wall-mount is bigger and beefier than most of the competition, if lacking some subtlety and refinement	33.5x24x21.5	30	87	•			94
	Allison AL105	170	A-	Pretty enough in appearance, sonically the AL105 doesn't really make the grade at the £150 asking price	37x24x21	45	87	•			78
▲	Allison AL110	220	G-	Compact bookshelf model is a little dry and mid forward, but bass is extended and solid	40x24.5x22.5	28	86		•		102
	Allison AL120	420	A	Pretty well balanced if slightly mid forward, but sound quality is a little disappointing for the price	63x28x27	30	88		•	•	98
	Allison MS 200	220	A-	Small and solid as a brick, this micro-miniature has limited bass and bright balance, but sounds agile and communicative	25.5x14.5x15	50	85	•			106
▲	Apogee Caliper Signature	3995	G+	Power hungry full range ribbon panels have remarkable transparency and delicacy, loudness and 'grunt' are a bit lacking	122x70x6.5	30	81		•	•	81
▲	Arcam Delta 2	300	G	Pretty luxury compact sounds a shade forward and coloured but has dynamic and lively bass for its size	37.5x22.5x27.5	40	87		•		94

MAIL ORDER
Tel: 071 436 1053
Fax: 071 637 2690

KAMLA

Coming Soon:
Large range of NTSC Laserdiscs will be available from November

Product List

AIWA
AKAI
AR
ALCHEMIST
ALPHASON
AUDIO ALCHEMY
AUDIOSTATIC
AURA
B&W
BEYER
BOSTON
CERWIN VEGA
CONRAD JOHNSON
GOLDRING
INFINITY
JAMO
JVC
KEF
KENWOOD
KINSHAW
MIRCROMEGA
MORDAUNT-SHORT
MOTH
NAKAMICHI
ORIGIN LIVE
PHILIPS
PIONEER
PROCEED
PROJECT
ROTEL
RUARK
SANSUI
STAX
SME
SYSTEMDEK
TEAC
TECHNICS
THORENS
TOWNSHEND

TEAC
VRDS 7
D700/P700
NOW ON
DEMONSTRATION

We also stock a large range of TV's/Video's from

**AKAI, HITACHI, JVC
MITSUBISHI, PANASONIC
PHILIPS, SAMSUNG
SHARP, TOSHIBA**

MICROMEGA
T-DAC
T-DRIVE

the first front loading transport from Micromega

Townshend Rock III Turntable Now On Demonstration
See review in Oct'93 issue of Hi-Fi Choice

New Rotel AV Products Now In Stock
RSP 960 AX Prologic Processor
RB956 Six Channel Poweramp

SALE ON NEW AND EX-DEM HI-FI

		RRP	NOW
~~Audio Alchemy DDE V1.0~~	~~new~~	~~420.00~~	~~295.00~~
Motif (Conrad Johnson) MS2001 200 Watt Power Amp	ex-dem	4000.00	2400.00
~~Motif (Conrad Johnson) MP11 Phono Stage~~	~~ex-dem~~	~~2250.00~~	~~1125.00~~
Conrad Johnson MF200 200 Watt Power Amp	ex-dem	2400.00	1800.00
Oracle Alexandria inc. SME345 arm	new	1890.00	945.00
Oracle Delphi III	ex-dem	1595.00	950.00
Alphason Sonata inc. HR100/Atlas	ex-dem	1785.00	1160.00
~~Teac D500 D/A Converter~~	~~ex-dem~~	~~330.00~~	~~265.00~~
~~SD Acoustics SD1~~	~~ex-dem~~	~~1650.00~~	~~825.00~~
SD Acoustics SD4	ex-dem	700.00	455.00
Nakamichi 1000mbi	new	4500.00	2295.00

UPTO 50% OFF

ACCESSORIES FROM:

AKG, ALPHASON, AUDIOQUEST, AUDIOTECHNICA, BEYER, CABLETALK, FOUNDATION, FURUKAWA, GOLDRING, IXOS, KONTAK, LYRA, LYNWOOD, MONSTER, ORTOFON, QED, SENNHEISER, SONIC LINK, SOUND STYLE, STRAIGHTWIRE, STANDS UNIQUE, SUMIKO, SUPRA, TOWNSHEND, XLO, VAN DEN HUL

ASK Electronics Ltd.
248-250 Tottenham Court Road
London
W1P 9AD
071 637 0353/0590

251 Tottenham Court Road
London W1P 9AD

071 323 2747

Harp Electronics Ltd
237 Tottenham Court Road
London
W1P 9AD
071 636 4611

Loudspeakers continued

Product	£Price		Comments	Size: HxWxD (cm)	Bass from (Hz)	Sensitivity (dB)	Site close to wall	Site in free space	Floorstanding	Issue No.
ATC SCM20	1461	G+	Massively built, invariably informative but the rather forward presentation can be uncomfortable	44x24x31	28	82			•	86
▲ Audio Note AN-E/B	1300	G+	Lovely coherence, great midband dynamics and transparency, extended bass and high sensitivity — pity it's so darn ugly!	80x36x28	20	91		•		106
▲ Audio Note AN-J/B	799	G+	Light damping and local unevenness adds some coloration, but doesn't spoil the very lively, dynamic and coherent sound	58.5x33x24.5	25	90		•		110
Aura SP-50	400	A	Two very tasty drivers rather outclass the cabinetwork; a capable but slightly dull compact stand mount	40x22x25	30	87		•		126
▲ B&W 2001	120	A	Cunningly concealing its (very real) limitations, this is just about the smoothest and best balanced miniature around	29x18x21	48	87		•		118
B&W 2003	190	A-	Flashy and assertive ghetto blaster styling is not reflected in the rather bland, if well balanced sound	43x21x25	30	88		•		122
▲ B&W DM620i	399	A+	Good material value, this compact floorstander has a beautifully voiced midband, less happy bass tuning	77x24x32	40	89		•	•	126
▲ B&W Matrix 801	3500	G+	Lacks the transparency of the best panels, and the drama of the best dynamics, but is something of an acoustic tour de force	77/99x56x43	<20	86	•	•		81
▲ B&W Matrix 805	845	G	Stylish, with remarkable imaging properties, good balance and low coloration, though less successful at musical communication	42x26x22.5	30	87		•		98
▲ Bose 305	430	G-	A bit of an oddball, fine dynamic liveliness and a good room match more than make up for the strange stereo imaging and treble	28x45x23	40	88	•			78
Bose 401	500	A	Cheaply built but distinctively styled semi-omni floorstander suffers from heavy midbass but still sounds lively and open	78.5x30x28.5	28	89		•	•	110
Bose 901 MK6	1650	A	The pre-equalised multi-driver 901 is cleverly engineered to deliver exceptional loudness	33x54x32	28	89		•		86
Boston HD5	139	A	Tiny and prettily shaped miniature has an attractive lack of boxiness, but is a little short of drama and dynamic drive	25x16x18.5	30	86	•			110
▲ Boston Acoustics SW10	449	G-	Clever powered subwoofer system integrates well and improves system loudness and power handling	50x28.5x42	35	NA	•	•	•	126
▲ Cabasse Bisquine	600	G+	Classy French large bookshelf speaker has great coherence and dynamic grip, but a rather mid-forward overall character	48x26x30.5	30	91		•		110
▲ Cabasse Skiff	1500	G+	Large floorstanding three-way gives great sensitivity and bass extension with fine dynamic grip	100x30x36	25	92		•	•	122
▲ Canon S-30	180	A+	Clever and unusual moulded design has attractive lively coherence, along with 'wide imaging stereo' effect	27x22.5x23.5	50	88	•			114
▲ Canon S-50	250	A+	Only a small cone miniature at heart, the fascinating styling and extended sweet spot feature make it utterly original.	30x24(diam)	48	84		•		102
▲▲ Castle Chester	650	G+	A brilliant throwback, using horn-type approach to provide startling midrange dynamics and coherence.	94x23x27	45	87			•	98
Castle Durham	250	A	Like the slightly larger York, the very pretty presentation is not reflected in a similarly sweet sound	40x22x24	48	88		•		118
▲ Castle Howard	999	G+	Ably fills the price/size/sound gap between Chester and Winchester; a spacious semi-omni with a rich, laid back balance	104x23x35	25	87		•	•	132
▲ Castle Trent II	190	A	Very classy finish for the price, plus a sound that passes muster without setting anything much alight	33.5x18x20	50	88	•			122
▲ Castle Winchester	1499	G+	Unconventional and beautifully crafted, large for its bass extension but engagingly agile and attractively open and airy	114x24x47	25	87		•	•	90
Castle York	349	A+	Pretty little real wood compact has an engaging transparency, good balance and fine timing, could do with more authority	43x22x26	30	86				110
▲▲ Celestion 1	109	A	Pretty basic performance but at a very basic price — it all sounds a bit scrappy and untidy, but its heart's in the right place	27.5x16x21	50	87	•			114
▲▲ Celestion 3 MkII	130	A+	Smooth and polished by budget speaker standards, if a bit laid back for some tastes	31x18.5x20	45	87		•		130
Celestion CS135	139	A-	Compact hideway passive subwoofer lacks serious bass extension; for high sensitivity speakers only	52x19x34	45	88	•	•	•	128
▲ Celestion 15	389	G	Big box and bang for your bucks, short on subtlety and control, but long on both enthusiasm and perceived vinyl wood grain	103x20.5x25.5	28	90		•	•	114
Celestion 9	269	A	Nicely presented and fair material value, with impressively flat bass-to-mid balance	49.5x20.5x24	30	89		•		102
Celestion SL12Si	629	A	Elements of fine sound quality, but this 'grown up' SL6 variation has a lumpy response alongside its improved power handling	53x20x27	50	85		•		66
Celestion SL600Si	820	G	Has certain remarkable qualities that some will find irresistible, but needs careful system and room matching	27x20x23	52	82		•		68
Celestion SL6Si	429	A+	This stereotype luxury compact can sound a bit dull and congested, but really opens up on Slate Audio stands; favours CD	37.5x20x25	30	86		•		94
Celestion 300	1099	G	Splendid bass extension and fine panel-like openness and transparency, but dynamics and timing are suspect, balance very laid back.	100x21x31	<20	86	•	•		118
Dali 102	230	A	Attractive bookshelf model has fine midband focus and bass extension, but treble's a bit restrained and bass a bit detached	37x21x25	30	86		•		114
Dawn Chorus FS	698	G	Compact floorstander with superb coherence but rather forward midband. Would suit smaller rooms best	91x26x21	30	86		•	•	11
Dynaudio Contour 1.3	1199	G	Heavyweight luxury finish bookshelf model has good scale and weight but is pricey and a bit ponderous	38x20.5x29	28	86		•		122
▲▲ Epos ES11	395	G+	Integral baffle/driver to give a remarkable combination of low coloration, transparency and speed; bass is a bit shy	37.5x20x25	45	86		•		94
▲ Epos ES14	595	G+	Substantial stand mount delivers delightful midrange focus and delicacy with good bass control. System sensitive	49x22.5x29	25	85		•		98
▲ Faraday FS1	225	A+	Concrete box on a budget, works surprisingly well despite cheap drivers, wood veneers here Direct sale only	47x27x28	45	86		•		114
Faraday FS5	575	G	Pricey and ugly, but with its own sonic charm, thanks to substantial influence of the concrete enclosure has upon the sound	46x27x26	28	90		•		102
Faraday Siren	375	A-	Interesting if ugly high mass concrete cabinet is let down by imbalance of ageing driver combination	46x27x27	48	87		•		94
▲ GLL Maxim	119	A	Budget miniature offers well balanced strengths and few weaknesses at a very realistic price; a bit feeble	26x17x20	30	85	•			122
Harbeth LS3/5A	539	A	Still a classic miniature, though not to every taste, and none the better for the recent update under our listening conditions	30.5x19x16	60	81		•		66
▲ Harbeth HL-P3	479	G	Very limited loudness but impressive full-range scale from uncoloured and very well balanced but time-smeared sub-miniature	31x19x17	23	82		•		118
▲ Harman-Kardon LS 0200	150	A	Laid back to a fault but entertaining nonetheless, and a big box for the price	38x21x29	30	86		•		130
▲ Heybrook Prima	130	A+	Neat and discreet miniature delivers fine coherence, pace and timing, though balance is a trifle forward and bass a bit light	29x19.5x18	50	86	•			110
▲ Heybrook Quartet	555	G	Beautifully presented and built large bookshelf model with good sensitivity and a lively, forward sound	41x24x23	48	89	•			122



ESSEX DISCOUNT • ESSEX DISCOUNT • ESSEX DISCOUNT

RING FOR A DEAL

SPECIAL END OF LINE BARGAINS AVAILABLE

AMPLIFIERS

TECHNICS
SUVZ 220 NEW, 30 watts per ch.
SUVZ 320 NEW, 40 watts per ch.
SU A800K NEW, 40 watts per ch. MOS, Class AA
SU A700K NEW, 45 watts per ch. MOS, Class AA. Remote
SU A800K NEW, 55 watts per ch. MOS, Class AA. Remote
SU A900K NEW, 80 watts per ch. MOS, Class AA. Remote

KENWOOD
KA1030 65 watts per ch.
KA 4050R NEW, 70 watts per ch. Remote
KA 5020 80 watts per ch.
KA 5050R NEW, 90 watts per ch. Remote
KA 7050R NEW, 100 watts per ch. Remote
KAV 8500 HOME CINEMA "What HiFi?" Award Winner
KA 2060R, NEW, 65 watts per ch. Remote
KA 3020SE, 50 watts per ch
KA 3060R, NEW, 80 watts per ch. remote
KAV 3700, NEW, A/V ProLogic Amp
KAV 7700, NEW, A/V ProLogic amp with DSP

SONY
TAF 211B, NEW, 30 watts per ch.
TAF 244B, NEW, 60 watts per ch.
TAF 442E, NEW, 80 watts per ch. UK sound
TAF 542E, NEW, 90 watts per ch. UK sound
TAAV 570B, NEW, Dolby ProLogic Home Cinema Amp

CD PLAYERS

TECHNICS
SLXP 150, SLXP 330, SLXP 440, SLXP 550, SLXP 570, Portables
SLPG 340A Budget MASH Player
SLPG 440K, NEW, Remote MASH Player
SLPG 740K, NEW, MASH digital servo
SLPG 840K, NEW, advanced MASH

KENWOOD
DP 2050, NEW, model with CCRS
DP 3050, NEW, 1 bit model
DP 5050, NEW, 1 bit model
DP 7050, NEW, 1 bit model
DPM 6060, NEW, 6+1 multiplayer
DPR 4060, NEW, 5 disc multiplayer

SONY
CDPM 302, NEW, midi size player
CDPC 325M, Midi size multiplayer
CDP 312, NEW, full size player, remote
CDPC 345, NEW, full size multiplayer
CDP 715E, NEW, advanced full size player
CDP 915E, NEW, top of the range, full size player
CDPX100, NEW, 100 disc player
D130, D121, D133, D231, D132 CK, D225 CP, D421 portables al in stcok

CASSETTE DECKS

TECHNICS
RSBX 404K, NEW, Dolby B/C + HX Pro
RSBX 646K, NEW, 3 Head Deck with HX-Pro
RSBX 747K, NEW, 3 Head Deck with HX-Pro, Class AA
RSTR 232, NEW, A.R. twin deck
RSTR 333, NEW, A.R. twin deck with Bias adjustment
RSTR 515K, NEW, twin deck with HX-Pro
RSTR474, NEW, budget twin deck

KENWOOD
KX 3050 Dolby B/C, power loading
KX 5050 Dolby B/C, 3 motor, power loading
KX 7030 Dolby B/C, HX-Pro, 3 head, 3 motor
KXW 4060, NEW, twin deck, Dolby B/C
KXW 6060, NEW, twin deck – double record
KXW 8060, NEW, twin deck with HX-Pro

SONY
Single Decks
TCFX 211B, NEW, Dolby B/C
TCK 215B, NEW, budget full logic deck
TCK 415B, NEW, 3 head deck
TCK 511S, NEW, 3 head with Dolby S
TCK 611S, NEW, 3 head, 3 motor deck with Dolby S
TCW 445B, NEW, Dolby B/C
TCW 545B, NEW, auto reverse deck
\TCW 6455, NEW, auto reverse deck with Dolby 5

SPEAKERS

SONY
SS 8SE UK design
SS 125E UK design
SAW-90, Sub Woofer

WHARFDALE
Diamond 5, NEW
NEW MODUS VIVANDI SURROUND SPEAKERS NOW IN STOCK
**CRS3, CRS5, CRS7, CRS9 – new range*
**2130CS, centre speaker*

MORDAUNT SHORT
New series MS10, MS20, MS30, MS40, MS50 now in stock
CS1 + SW1 – Home Entertainment Series in stock in dialogue, stereo and ProLogic packs
NEW HT-30 Home Entertainment speakers

CANON
S30 + S50
VT100 corner units
**VS100, Sub bass corner units*

TANNOY
603 Mk II 120 watts power handling
605 Mk II 150 watts power handling
607 Mk II 175 watts power handling
609 Mk II 200 watts power handling
611 Mk II 250 watts power handling
613 Mk Ii 250 watts power handling
615 Mk II 300 watts power handling

HiFi SYSTEMS

TECHNICS
All systems inc. speakers and CD
SSCH 404, NEW, Budget Minisystem
SCCH 650, NEW, 50 watts Minisystem
SCCH 655, Multi-play Minisystem
SCCH 750, NEW, 50 watts system with DSP
SCCH 950, NEW, ProLogic Minisystem
SHE 51 equaliser for CDX 120 & CDX 320 sysems

KENWOOD
All systems with speakers, CD & remote control
*M27 CDS – **Now at special unbeatable price!***
M28, NEW, with multiplay optionM47 G, NEW, 45 watts per ch.
M56 PX, 45 watts per ch.
M57 MG, NEW, 45 watts per ch. Multiplay system
M76 G, 60 watts per ch. inc. equaliser
M77 MG, NEW, 80 watts per ch. Multiplay system
M97 G, NEW, 85 watts per ch. ProLogic system with multiplay CD option

NEW KENWOOD
Minisystems with Multiplay CD option
UD 302, NEW, budget 3 disc muiltisystem
UD310/351 M, 25 watts per ch.
UD 501/551 M, 32 watts per ch.
UD 701/751 M, 32 watts per ch., Dolby Surround
UD 901/951 M, 42 watts per ch., Dolby ProLogic
MSA7, NEW, Microsystem
EXTRAS AVAILABLE
P100 record deck for mini HiFi systems
CD6 centre speaker
CM 7ES rear surround speakers, 70 watts
CM 5ES rear surround speakers, 40 watts
SW 900 surround woofer for midisystems
SW 700 super woofer for minisystems
OMNI 7 top speaker

SONY
New systems now in stock ring for special deals on end of line stock
Compact 190/195 NEW budget system with multiplay option
Compact 290/295 NEW 30 watts system with multiplay option
Compact 490 NEW 40 watts system

SONY MINI HiFi
inc speakers & remote control & CD
MHC 510CD, NEW, 25 watts per ch.
MHC, C50 CD, NEW, MULTIPLAY SYSTEM
MHC 710CD, NEW, 40 watts per ch.
MHC, C70, NEW, CD MULTIPLAY SYSTEM
MHC 450 NEW budget system
MHC 650 NEW 35 watts system

MINI DISC
MZR1 + MZE2, NEW, portables
MDS 501, NEW, full size, mini disc player
MDS 101 for minisystems

JVC NEW SYSTEMS
UX-T1 MICRO SYSTEM with remote
UX-A4 MICRO SYSTEM with remote
ADAGIO S2 MINI SYSTEM 2 way speakers
ADAGIO S3 MINI SYSTEM 3 way speakers
ADAGIO S6 MINI SYSTEM 45 watts per ch.
ADAGIO S7 MINI SYSTEM 50 watts per ch.
ADAGIO S9 MINI SYSTEM Dolby ProLogic
ADAGIO 530 NEW MINI SYSTEM

DAT RECORDERS

SONY
TC DD7, NEW, Budget portable
DTC 690, NEW, Full size deck

TUNERS

TECHNICS
ST 610 24 Presets
STG 70 twin tuner
ST GT550K with RDS
ST GT650K with RDS

KENWOOD
KT 1060,NEW, model
KT 2030, with timer
KT 2050, NEW, model
KT 3050, NEW, model with RDS
KT 6050 remote compatible

SONY
STS211B, NEW, with 30 presets
STS 311B, NEW, with RDS – EON
STS 505ES with RDS

RECEIVERS

TECHNICS
SAGX 130K, 60 watts, 30 presets
SAGX 550K, NEW, Dolby ProLogic
SAGX 230K, 80 watts, VCR input
SAGX 350K, NEW, ProLogic

KENWOOD
KR-A4050 with RDS
KRV 6060, NEW, model with Dolby ProLogic and RDS
KRV 7050, NEW, model with Dolby ProLogic RDS + DSP

SONY
STRD 311B, NEW
STRD 511B, NEW, ProLogic model
STRD 611B, NEW, ProLogic model
Dolby ProLogic, kit, NEW, total surround package

IN BUSINESS FOR 30 YEARS

Essex Discount

CHELMSFORD: 2-3 West Square, High Chelmer. Tel: (0245) 490747
HARLOW: 57 Harvey Centre. Tel: (0279) 426155
LOUGHTON: 152 High Road. Tel: (081) 508 4838
ROMFORD: 8-9 Swan Walk. Tel: (0708) 746600

Access VISA

FOR FAST & EFFICIENT
MAIL ORDER
PHONE
(0708) 721854

ESSEX DISCOUNT • ESSEX DISCOUNT • ESSEX DISCOUNT

Loudspeakers continued

	Product	£Price		Comments	Size: HxWxD (cm)	Bass from (Hz)	Sensitivity (dB)	Site close to wall	Site in free space	Floorstanding	Issue No.
▲	Heybrook Sextet	1099	G+	Engagingly coherent and a highly analytical, partly due to distinct and t always comfortable upper-mid forwardness	96x27x20	25	85	•		•	102
▲	Heybrook Solo	189	A+	Discreetly styled, sounds a little untidy in both bass and treble but handles complex rhythmic material much better than most	36x23x22	28	87	•			90
▲	Heybrook Trio	359	G	Same drivers as HBS1 in prettier real wood enclosure give a sweeter and more forgiving if less committed sound	47x24x25	45	89		•		118
	Impulse H7	785	A	Ultra-compact horn has fine midband contrasts but very little bass and detached treble; gives amplifiers a hard time	87x15x30	45	85	•		•	132
	Infinity Kappa 6.1i	995	A	Good extension and laid back balance from high-tech drivers in classy cabinet, but bass is fat and slow and dynamics unconvincing	97x30x24	25	89		•	•	132
	Infinity Modulus	795	A+	Carefully conceived and beautifully built. Undeniably attractive in the mid and treble, it failed to handle the bass as well	30x18x26	45	84		•		86
▲	Infinity Reference 10	200	A	An engaging and lively sound from a prettily finished and substantial small bookshelf size model	36x23x23	50	87		•		98
	Infinity Reference 20	300	A	Well presented and balanced with good bass control, but somehow lacks convincing cohesion and agility.	46x27x24	27	88		•		102
▲	Infinity Reference 30	400	G	Budget price floorstander has good overall balance and bass extension, but is rather coloured and uneven	86x27x24	25	89		•	•	122
	Infinity Infinitesimal sub	499	A	Cute but pricey amplified subwoofer is too small to deliver real bottom octave grunt	34x34x34	40	NA	•	•	•	128
	Jamo 707	900	G-	Superb styling and cosmetics but indifferent build and engineering quality; decent balance apart from detached bass	105x26x39	25	88		•	•	132
	Jamo Cornet 40.3	130	A	Pretty presentation and a strong box, but poor driver fixing. Decent if bright sound	32x20x22	48	86		•		130
	JBL Control 1 Plus	250	A	Sub-miniature with forward midrange and real bass; highish price partly justified by near-indestructible Pro build	23x15.5x14	50	89	•			90
	JBL L1	479	G	Good power handling, decent transparency and deep but current hungry bass from a compact and solid enclosure	40x21x25.4	47	87		•		121
	JBL ti1000	1500	G	Ultra-engineered, beautifully crafted bookshelf model. Performance compromised by over enthusiastic midbass output from port	44x30x28	45	89		•		118
▲	Jordan JH400	590	A+	Piano finish hexagon has single full range driver and controversial sound, with uneven balance but delightful mid coherence	33x24x30.5	50	83		•		106
▲	JPW AP2	180	A	Offers real wood veneer at a bargain price; performance is cleaner but broadly comparable to P1 Vinyl overall	43.5x25.5x26	45	86		•		106
▲	JPW AP3	225	A+	Pretty good stereo and well balanced overall it had its own character which is well suited to vinyl replay	52x25x29.5	57	90	•			46
▲▲	JPW Gold Monitor	80	A	Great sound for pound value through bass and midband, but the top end's rather coarse	27x18x18	50	85	•			130
▲	JPW Minim	79	A-	Very civilised but dynamically limited, the Minim is well suited to the smaller room and where limited loudness is acceptable	27.5x18x19.5	28	85	•			82
▲▲	JPW Mini Monitor	60	A-	Ultra cheap Richer Sounds special is lightweight and short of welly, but a snip for surround sound use	27x18x17	50	85	•			122
▲	JPW P1	155	A+	Honest and basically articulate if not very sophisticated, resolution is good but can sound a little wearing in bright systems	44x25.9x26.1	60	89		•		59
▲▲	JPW P1 Vinyl	135	A	A lot of highly competent loudspeaker for the price, with a safe sound that's unlikely to disappoint.	43.5x25.5x26	32	87		•		102
▲▲	JPW Sonata	115	A+	Well balanced and integrated, offers fine sound if limited bass and dynamic range, plus real tree wood at a nearly silly price	32x23x20	55	86	•			71
	JPW Sonata Plus	135	A-	This luxury variation on the redoubtable Sonata theme features a metal dome tweeter, and isn't the better for it	32x23x21	30	87		•		90
▲	JRT AD1	500	G+	A fair share of cosmetic deficiencies do little to spoil the impressive coherence and timing	59.5x28x36	28	86	•			86
▲	JRT AD1 Micro	389	G	Delightful life and coherence, gives surprising impression of scale; some aggressive tendencies but very open to system tuning	28x17x21	50	87	•			94
▲	Jordan JH400	504	A+	Piano finish hexagon has single full range driver and controversial sound, with uneven balance but delightful mid coherence	33x24x30.5	50	83		•		106
▲	KEF 104/2	1595	G+	A reference point for dynamics, preferred without KUBE, suited to many rooms. Good stereo, high sound level	90x28x41.5	50	92		•	•	60
	KEF K120	169	A	Physically pretty and sonically competent but undistinguished bookshelf size model has good sensitivity but limited extension	34x20.5x26	45	87		•		106
	KEF Q30	349	A	Fine focus from Uni-Q driver, but lacks drive and time coherence; acoustically smaller than it looks	73x19x29	44	88		•	•	126
	KEF Q80	569	A+	Uni-Q floorstander has good stereo and fine midband coherence, but bass lacks extension, drive and resolution	85x24.5x26.5	45	87		•	•	106
	KEF Q90	739	A	Generous floorstander has even balance and decent extension but fails to communicate excitement and involvement effectively	90x25x32	25	88		•	•	118
	KEF AV1	2499	G-	Awesomely built, finished and powerful subwoofer lacks the subtlety and unintrusiveness for top class hi-fi applfications	43x56x50	<20	NA	•	•	•	128
▲	Kenwood LS-770G	260	G	Impressively communicative bookshelf model has fine vigour, scale and dynamics, if not the smoothest sound around	48x27x25	25	89		•		106
▲	Kenwood LS-500G	500	G	Japanese designed and built luxury compact delivers an invigorating and exciting sound; an interesting contrast to some lazier models	45x23x26	48	89		•		118
▲▲	Legend II	200	G	Liveliness, coherence and fine information retrieval justifies the odd looking moulded baffle construction	37x21x30	48	88	•			122
▲▲	Linn Index II/KuStone	374	G	Stand and speaker looks and sounds very good, good bass extension and control, fine dynamic range. Clean, clear if a shade slow	44x21x23.5	28	86	•			90
▲	Linn Kaber	1298	G+	Dry, bright balance emphasises superb dynamic range and transient precision, but can sound unforgiving	89x19x29	25	85	•		•	118
▲	Linn Keilidh	579	G+	Stunning timing and coherence and awesome bass drive, especially with ceramic plinth; sounds a bit shut in	83x20x27.5	22	87		•	•	114
	Living Voice Air Partner	11990	E	Formidable horn design with astounding transparency, dynamics and speed. Its idiosyncracies are compensated by sheer energy	165x64x92	40	101	•		•	117
▲	Lumley Monitor Reference 3	895	G+	Lovely free stander suffers from indifferent bass alignment, but is fast, coherent, solid and very informative indeed.	87x27.5x28	30	90		•		106
	Lumley Monitor Reference 4	375	A	All metal diaphragm and real wood at fair price; balance uneven — upper mid forward with suspect bass tuning	36x17x23	44	86				126
	Magneplanar SMGa	668	A	Tonally 'rich', in the right room it proved a satisfactory musical experience	122x48x4.5	56	85		•	•	46
	Meridian Argent 1	995	G+	Beautifully built, finished and shaped, has fine bass extension and virtual absence of 'boxiness'; needs a big amplifier	33x27x27	28	83		•		98
	Meridian Argent 2	875	G	Beautiful high-tech 'large compact' delivers extended, smooth and neutral sound with fair speed. Slate Audio stands essential	48.5x21x29.5	23	85		•		94
	Meridian M30	950	A	Pricey active speaker, easy on the ears and worth considering especially where space is at a premium	38.5x18x32	40	NA		•		46
▲	Mission 753	700	G+	Gorgeous presentation and potential for open transparency. Floorstander with lots of drivers that gives lots of loudness	90x22x30.5	45	88		•	•	114
▲	Mission 760i	130	A+	Attractive little wall-mount miniature has livelier dynamics and bass drive than most of its type, but sounds as little shut in	29.5x18x20	48	87	•			110
▲	Mission 760i SE	150	A+	Tweaked 760i variation is one the prettiest and best balanced babies around; a demanding amp load	29.5x18x20	50	87	•	•		130
	Mission 764i	480	A	Generous and handsome floorstander looks fine material value for money, but good scale sound has lazy tendencies	89x25x32	22	86		•	•	118
	Mission 765i	680	A+	Big heavyweight floorstander has good sensitivity and bandwidth, but somehow lacks agility, authority and dynamic grip	102x25x33	22	91		•	•	110
	Mission 751	300	A	Attractive luxury miniature has great sonic potential, but our our review samples have been marred by sample variations	32x17x27	45	86	•			126
	Monitor Audio MA1200 Gold II	1200	G	Pricey but classy floorstanding variation on MA800 theme; beautifully voiced midband, heavy midbass	93.5x17x27	28	85		•	•	122
▲	Monitor Audio Studio 6	800	A+	Pretty but pricey metal diaphragm compact has clear and transparent midband but is ultimately lacking in vim, vigour and drive.	35x22x25	45	86				118
▲	Mordaunt-Short MS-10	130	A	Hi-tech baby has fine bass/mid integrity but the top end is less appealing	30.5x18.5x21	50	86		•		130
	Mordaunt-Short SW-1	150	A-	Prettily finished and inexpensive passive subwoofer is only really useful with sub-miniature speakers	24x58x25	40	85	•	•	•	128
	Morel Bassmaster 602	1200	G+	Superbly built compact stand-mount, did well in listening tests but suffers (enjoys?) upper midband peak	24.5x40x22.5	25	84		•		114
	NAD 801MM	100	A-	A rather undistinguished sub-miniature with low sensitivity and indifferent sound quality	27x18x18	48	84	•			130
▲	NAD 804	320	A+	Good value compact floorstander sounds lively and coherent, but quite coloured due to uneven balance too	75x20x26	25	89		•	•	126
▲	NVA Cube 1	720	G+	Attractive, semi-omni is very sturdily built, and gives an idiosyncratic but unusually open, spacious and informative sound	33x32x32	52	85		•		71
▲	NVA Cube 2	480	G	A rude but exciting miniature, with unusually accomplished bass capabilities for its size	28.5x27x28.5	48	85	•			82
	NVA Cubix	1400	G	Too idiosyncratic for recommendation, the Cubix possesses remarkable bass extension for its size, but is tricky to optimise	60x32.5x32.5	28	84	•			78
	Naim IBL	895	G	This tiny floorstanding wall mount delivers outstanding dynamics, speed and detail, marred by pronounced upper mid forwardness	80x18x15-20	30	84	•		•	94
▲	Naim SBL	1708	G+	Impressive scale, full bandwidth, coherent, attractively discrete, coloured midband, very well balanced and agile	88x26.5x17-27	25	86	•		•	102

MAIL ORDER SALE MAIL ORDER SALE MAIL ORDER SALE MAIL ORDER SALE MAIL ORDER SALE MAIL ORDER SALE MAIL ORDER SALE

Sound Video Centre

SPECIAL OFFER ON YAMAHA DSP-A970 IMPRO LOGIC AMP

AUTHORISED DEALER FOR ALL MAJOR BRANDS

RING US FOR BEST PRICE IN TOWN – *WE CAN BEAT ANY PRICE!*

SONY

MINI HIFI

Compact 190 ..... £POA
Compact 195 ..... £POA
Compact 290 ..... £POA
Compact 295 ..... £POA
Compact 490 ..... £POA
MHC 510CD ..... £POA
MHC 710CD ..... £POA
MHC 450 ..... £POA
MHC 550 ..... £POA
MHC 650 ..... £POA
MHC 2750CD ..... £POA
MHC 2800CD ..... £POA
MHC 3800CD ..... £POA
MHCC 50 ..... £POA
MHCC 90 ..... £POA
MHC 20800 ..... £POA
MHC 30800 ..... £POA
MDS 101 ..... £POA
SS V77 ..... £POA
SS J80AV ..... £POA
SA W90 ..... £POA
DSP 2070 ..... £POA

CD PLAYERS

CDP 411 ..... £POA
CDP 711E ..... £POA
CDP 911E ..... £POA

CASSETTE DECKS

TCK 411B ..... £POA
TCK 511B ..... £POA
TCK 611B ..... £POA

TUNERS

CSTS 2118B ..... £POA
STS 311LB ..... £POA
STS 505ES ..... £POA
Graphic 9 ..... £POA
SEO 411B ..... £POA

YAMAHA

AMPLIFIER

DSPA500 ..... £POA
DSPA970 ..... £POA
DSPA2070 ..... £POA
DSP E200 ..... £POA
DSP E1000 ..... £POA
NS E100 ..... £POA
NS C90 ..... £POA
AX 401 ..... £POA
AX 470 ..... £POA
AX 570 ..... £POA

CASSETTE DECKS

KX260 ..... £POA
KX360 ..... £POA
KX650 ..... £POA
KXW262 ..... £POA
KXW362 ..... £POA
KXW952 ..... £POA

JVC

MACRO HIFI

UXA4 ..... £POA
UXA5 ..... £POA
UX TI ..... £POA
ADAGIOS9 ..... £POA
ADAGIOS7 ..... £POA
ADAGIOS6 ..... £POA
ADAGIOS4 ..... £POA
ADAGIOS30 ..... £POA
ADAGIOS20 ..... £POA

MICRO HIFI

UXA5 ..... £POA
UXA4 ..... £POA

AIWA

CASSETTE DECKS

ADF810 ..... £POA
ADF500 ..... £POA
ADF410 ..... £POA
ADWX 929 ..... £POA
ADWX 828 ..... £POA

PIONEER

J200 ..... £POA
J10M ..... £POA
J20M ..... £POA
J300 ..... £POA
J400M ..... £POA
N50W ..... £POA
N70W ..... £POA
N100W ..... £POA

MISSION

SPEAKERS

760 SE ..... £POA
7601 ..... £POA
761 ..... £POA
762 ..... £POA
763 ..... £POA
764 ..... £POA
780 ..... £POA
780 SE ..... £POA

BOSE

SPEAKERS

AM 7 ..... £POA
AM 5 ..... £POA
AM 3 ..... £POA
301 ..... £POA
401 ..... £POA
205 ..... £POA
601 ..... £POA
701 ..... £POA

JAMO

SPEAKERS

PRO 200 ..... £POA
PRO 300 ..... £POA
PRO 400 ..... £POA
D 165 ..... £POA
D 265 ..... £POA
D 365 ..... £POA

TECHNICS

MINI HIFI

SC CH950 ..... £POA
SC CH750 ..... £POA
SC CH650 ..... £POA
SC CH550 ..... £POA
CD X920 ..... £POA
CD X520 ..... £POA
CD X320 ..... £POA
CD X120 ..... £POA
CD C120 ..... £POA

AMPLIFIERS

SUA 900K ..... £POA
SUA 800K ..... £POA
SUA 700K ..... £POA
SUA 600K ..... £POA
SUV2 320K ..... £POA
SUV2 220K ..... £POA

TURNTABLES

SL 1210 ..... £POA
SL 1200 ..... £POA
SL DD33 ..... £POA

CASSETTE DECKS

RS BX808K ..... £POA
RS BX747K ..... £POA
RS BX646K ..... £POA
RS BX404K ..... £POA
RS TR777K ..... £POA
RS TR515K ..... £POA
RS TR474K ..... £POA
RS TR373K ..... £POA

CD PLAYERS

SLPG 340 ..... £POA
SLPG 440 ..... £POA
SLPG 520 ..... £POA
SLPS 620 ..... £POA
SLPS 700 ..... £POA
SLPS 900 ..... £POA

KENWOOD

MINI HIFI

UD 301 ..... £POA
UD 501 ..... £POA
UD 551M ..... £POA
UD 701 ..... £POA
UD 751M ..... £POA
UD 901M ..... £POA

MIDI SYSTEMS

M 26 ..... £POA
M 47G ..... £POA
M 56G ..... £POA
M 76G ..... £POA
M 97G ..... £POA
CM 5ES ..... £POA
CM 7ES ..... £POA
SW 900 ..... £POA
CS 6 ..... £POA

NAD

AMPLIFIERS

302 ..... £POA
304 ..... £POA
306 ..... £POA

CD PLAYERS

502 ..... £POA
505 ..... £POA

SVC

132 Balham High Road, Balham, London SW12. Tel: 081- 673 3398. Fax: 081-673 3068
264 Lavender Hill, London SW11. Tel: 071-228 3123 or 081-675 0048
385 North End Road, London SW6. Tel: 071-381 0706

Sound Video Centre

MAIL ORDER SALE MAIL ORDER SALE MAIL ORDER SALE MAIL ORDER SALE MAIL ORDER SALE MAIL ORDER SALE MAIL ORDER SALE

Loudspeakers continued

	Product	£Price		Comments	Size: HxWxD (cm)	Bass from (Hz)	Sensitivity (dB)	Site close to wall	Site in free space	Floorstanding	Issue No.
▲	Neat Petite	525	G+	Far from perfect, but one of the most entertaining and enjoyable speakers around, colorations notwithstanding.	30.5x20x18	33	86	•			102
▲	Origin Live OL2A	469	G	Compact floorstander sounds open, transparent and evenly balanced; needs a big amp but enjoys hard driving	82x19x19	25	85		•	•	122
	Origin Live OL1	499	G	Luxury miniature has very good overall balance, sacrificing sensitivity to achieve remarkable bass extension for the box size	30.5x19x21	25	82	•			106
	Pioneer S-4UK	250	A+	Carefully developed minimalist audiophile design has some vigour but suffers an intrusive upper mid peak	37x21x28	50	87		•		122
	Polk LS70	1200	A+	High sensitivity and lots of loudness potential, but in-room balance has far too much midbass boom; mid and treble are very laid back	96x31x37	22	91		•	•	132
	Polk RM 1000W	349	A-	Not a true subwoofer at all, but rather the bass section of polk's elegant upmarket three box speaker system	31x52x33	45	90	•		•	128
▲	Professional Monitor Co LB1	998	G+	Delightful smoothness and transparency, though bass extension and sensitivity are both limited	53.5x18x26	33	86		•		110
	Professional Monitor Co AB1	1600	G	Bulky stand-mount transmission line has lovely panel-like transparency, slightly shut in balance, and needs a big room	79x27x43	22	89		•		114
▲	Quad ESL-63	2384	G+	This classic electrostatic may not be punchy in the bass, but has strengths that some can't live without	92x66x27	34	84		•	•	60
▲	Rega EL8	298	G	Kyte drivers in compact floorstander give more bass but a shade less coherence; good for small rooms and budget systems	75x16.5x21	55	86			•	122
▲	Rega ELA	405	G	Very compact floorstander with integral stand has serious coherence and dynamics, but a measure of brightness and untidiness	84.5x20x30	30	86			•	110
▲▲	Rega Kyte	198	G	Has splendid timing and coherence, sounds very explicit and informative, if a bit bright and short of grunt	31x19x20	50	87	•			114
▲▲	REL Strata	499	G+	Outstandingly value and performance active subwoofer adds serious bass unintrusively to any small speaker system	52x42x31	<20	NA	•	•	•	128
▲▲	Rega XEL	1040	VG	Looks good, measures well and sounds great too; balance is bright but even, with delightfully bass-to-mid coherence and timing	102x21x33	40	89	•		•	132
▲▲	Rogers LS2a/2	229	G	Balance is a bit warm and rich but 2a/2 has delightful mid-to-treble coherence and transparency, and more welly than Mk1	35.5x23x22	30	84		•		106
	Rogers LS4a/2	300	A+	Civilised but a trifle lazy, this large bookshelf model hasn't quite the timing or agility to be particularly engrossing	43x25.5x25.5	25	86		•		110
	Rogers LS6a/2	399	G	Largish stand-mount is well built, measures well, good material value, but sounds a bit heavy and lacklustre	51x28x29.5	22	87		•		114
	Rogers LS8a	499	A+	A mixed bag, with plenty of scale and welly but lacking the subtlety, clarity and agility delivered by some rivals	89x25.5x25	48	91		•		102
▲	Rogers Studio 3	450	G	Pricey LS3/5A-derived wall-mount sub-miniature is excitingly coherent if a bit lightweight; no real loudness capabilities	31x19x17	30	83	•			118
▲	Rogers Studio 7	880	G	Latest variation on classic BBC-monitor theme looks old fashioned but has beautifully voiced, laid back sound	63x30.5x30.5	30	88		•		122
▲	Roksan Ojan 3	895	G+	Squat, stylish and black, with unusual tweeter decoupling; great bass extension and flat but somewhat uneven balance	78x28x45	<20	85		•	•	132
	Royd Topaz	173	A+	Cheerful, articulate and essentially communicative miniature can also sound a trifle scrappy and shut in; well worth trying	30.5x20.5x19	50	87		•		114
	Royd Abbot	666	A+	Engaging and dramatic dynamics and fine transient coherence are hampered by a rather coloured mid-forward balance	83x20x34	43	88	•	•		118
	Ruark Templar	479	A+	Compact floorstander with striking baffle has decent bass/mid but dull treble; could tame over-bright system	73x19x27	25	85		•	•	122
▲	Ruark Talisman 2	700	G	Less ideologically committed than some compact floorstanding rivals, its key strength lies in fine all round compromise	86x25x31	30	86		•	•	118
	SD Acoustics Ribbon	2950	G+	Amplifier sensitive, Ribbon is a lively and loud hybrid marred by some colorations; some like it, others don't	152x30x(15-30)	30	91		•	•	81
▲	SD Acoustics SD1	1650	G+	A large scale, airy and unusually detailed system with excellent dynamics. A warmer balance than original model	123.5x38.2x32	50	90		•	•	60
▲	SD Acoustics SD3	399	G	Port firmly blocked, the new SD3 has the agility and charm of a quality miniature, with good bass extension but low sensitivity	38x19.5x29	25	83		•		106
	SD Acoustics SD4	699	G	Tall slim floorstander has fine balance, good bass extension and lovely open midband transparency	100.5x20x30.5	25	85		•	•	114
▲	SD Acoustics SD5	1235	G	Bass tuning and coherence suspect but forward midband is delightfully smooth; high class drivers include ribbon tweeter	112x20x30	30	86		•	•	132
	Shahinian Arc	1062	G	Unusual and occasionally wonderful small floorstanding omni; too bright but exceptionally coherent and revealing	69x35x25	24	85		•	•	110
	Snell Jill	770	G	Dated styling belied by fine sensitivity and bass extension, and a lively if slightly untidy and not quite coherent sound	58x33x25	30	89		•		118
▲	Spendor S20	579	G	Maintains Spendor's tradition for peerless mid-to-treble coherence and perspectives. Bass is rather unconvincing.	38x22x26	25	83		•		102
	Spica Angelus	1295	A	A little bass shy and soft in the bass and lower mid, otherwise tidy, extremely lively and fluid, if uneven overall	116.8x53.3x26	50	86		•	•	60
	Spica TC50	649	G	This triangular-profile 'grown up' miniature is a shade boxy and laid back but has good rhythmic and musical integrity	40.5x33x29	55	88		•		71
	Spica TC50SE	849	G	A heavily UK-modified TC50, the SE sounds less boxy and more spacious, but lacks some of the urgency of the standard model	40.5x33x29	55	88		•		71
	TDL NFM	120	A-	A disappointing underperformer in our tests, at a price that's not very nice either	27x18x18	50	86	•			130
▲	TDL RTL3	400	A+	Bargain price floorstander has rich, heavy and bright sound with good scale and fine basic neutrality	92x20x38	25	88		•	•	126
	TDL Studio 0.5	499	G	Tiny floorstanding transmission line has good agility but doesn't provide the coherence or even balance of Studio 1	55x20x30	40	85		•		94
▲	TDL Studio 1	699	G	Genuinely extended bass from a compact enclosure, very detailed but a shade clinical and detached in presentation	76x23x33	25	84		•	•	78
▲	TDL Studio 1M	899	G+	Transmission line helps bring the best from metal cone driver: lovely transparency and fine bass extension	81x23x33	<20	84		•	•	118
▲	TDL Reference Monitor	1999	G+	Fine solidity and good accuracy, with great bass extension. Needs a big room and can sound a bit lazy and a shade tinkly	118.5x30x47	28	85		•	•	66
	Tannoy 603 II	140	A-	Pretty looking but altogether rather dull sounding mini-hexagon is less effective than larger brethren	33.5x22x16	45	86		•		130
▲	Tannoy 607 II	220	A	Large bookshelf, smart hexagonal box has fine bass for the price, but treble sounds rather shut in	50x32x24	25	88		•		122
▲▲	Tannoy 609 II	295	A+	Large bookshelf size model with dual concentric driver has fine balance and scale with low coloration	50x32x24	22	86		•		126
▲	Tannoy Westminster	6000	G+	These awesome horn loaded speakers are remarkably controlled and impressive, if only suited to a few pockets and rooms	Huge	38	96	•		•	Col
	Technics SB-EX2	180	A	Nicely presented, well built and decent size enclosure sounds solid but somewhat dull	48x23.5x27	20	86		•		98
▲	Technics SB-RX50	650	A+	A smooth and well balanced loudspeaker, its minor weakness being a mildly excessive low bass	48x30x26	40	86		•		46
▲	Thiel SCS	1069	G+	Luxury piano-gloss compact sets class-leading standards for coherence and communication, can sound a shade dark and shut in	40x22x23	45	87		•		114
	Thiel CS1.2	1219	G	Elegant compact floorstander has fine balance and dynamic range, but transient timing and dynamics are less convincing	94x27x27	30	86		•	•	118
▲	Totem Model One	995	G	Utterly delightful but exasperatingly expensive luxury miniature sets the benchmark for its size	31x16.5x23	28	86		•		122
	Vandersteen 2Ce	1395	G+	This compact American floorstander's elegant staggered baffle arrangement contributes to a refreshing freedom from boxiness	100x30.7x25.6	23	87		•	•	86
	Visonik David 6001	163	P	Sharp styling but the complex grillework worsens a sound which starts off with too much top and not enough bottom	20x12x13	130	87	•			74
▲	Wharfedale 425	200	A+	Large bookshelf size 505 heir shows fine control and a conservative balance ideally suited to quality systems on a budget	40x27x26	45	87		•		118
▲▲	Wharfedale Delta 30.2	100	A	Has a bigger main driver than many, and so packs a bit more welly and loudness. Coloration is rather obvious, but timing is good	38x22x17	48	88	•			98
▲▲	Wharfedale CRS3	89	A+	Loads of fun — a remarkably coherent and lively performer at any price; pity it doesn't look prettier	38x22x18	50	88	•			122
	Wharfedale Diamond V	130	A	This miniature is smoother than most, but rather stodgy with it, inspiring little enthusiasm among our listeners	27x18x20	50	86	•			114
	Yamaha YST-SW50	199	A	Bargain price amplified subwoofer is too small for serious bass freaks, but does a fair job for the price	48x21x33	35	NA	•	•	•	128
▲	Yamaha NS 1000M	1200	G+	Living up to its monitor label, and tonally well suited to digital material, it's superbly crafted and capable of high levels	67.5x37.5x32.5	40	90	•			46
▲	Zyp A1	199	A+	Cute metal cased micro-miniature is quite coloured but great fun, with surprising dynamics and fine wall-loaded room balance	22.5x14.5x13	30	85	•			110

WATCH OUT FOR A SMALL BUT SELECT BUNCH OF VERY SERIOUS LOUDSPEAKERS IN THE NEXT COPY OF EAR (ENLIGHTENED AUDIO REVIEW); THE ONLY ZEN HI-FI PUBLICATION. FREE WITH THE OCTOBER ISSUE OF HI-FI CHOICE.

We Guarantee Best Deals

Myers Audio

EST. 1972
6-7 Central Parade, Hoe Street,
Walthamstow, London E17 4RT
(Near Tube and Cinema) FAX: 081-503 6677

MAIL ORDER

Our mail order service is fast and efficient. All we require are your credit card details when your order is placed. Our Data Post service operates daily, ensuring quick, safe delivery. **Carriage is FREE OF CHARGE FOR ANY SALE OVER £100** throughout the UK, but not on price match*. Delivery charge of £8 per unit below 10k.

FREE DELIVERY MAINLAND UK

081-520 7277

FOR FAST & EFFICIENT
MAIL ORDER
HOTLINE
081-520 7277

1. All goods fully guaranteed
2. All goods brand new
3. Delivery free
4. All prices include VAT

● Our own service department will make sure you continue to enjoy that great sound both during and after our one year warranty period.

PRICE PROMISE

Our prices are competitive but should a product be available at a lower price from an authorised dealer . . .

We will beat it by up to £20!

AV PRO-LOGIC AMPS/RECEIVERS

AV PROLOGIC

KENWOOD
KRV6060/7050 ..... £349/£399
KAV3700/7700 ..... £299/£599
KAV8500 ..... £699
SONY
STRD 511/611 ..... £279/£329
TAAV570 KIT £499
DOLBY PRO KIT £349
SAVA3 ..... £799
TAAV510B £399
TECHNICS
SAGX550LK £449
SAGX350LK £329
PIONEER
VSAD802S £569
VSA701S £469
VSX452 ..... £379
YAMAHA
DESPE 200 ..... £369
DSPE 580/1000 ..... £449/£669
RXV 470 ..... £399
DSPA780/970 ..... £629/799
DSPA2070 ..... £1099
MARANTZ
PM700AV £399
AV500 PRE AMP £599
MA POWER AMP £249
SR73 RECEIVER £699

SONY

AUTHORISED DEALER

TCK 611 Dolby S
P.O.A.



AMPLIFIERS
TAF211B 30W, PCH £149.00
TAF244E 40W, PCH+MCS £199.00
TAF442E 80W, PCH £249.00
TAF542E 90W, PCH £229.00
TUNERS
STS 211B/STS 311LB ..... £129/£199
STS 505ES £249.00
SINGLE CASSETTE DECKS
TCFX211B £99.00
TCK215B/415B ..... £129/£179
TCK511S ..... POA
TCK611S Best Buy ..... POA
TWIN CASSETTE DECKS
TCW445B/TCW545B ..... £149/£199
TCWR645S £249.00
CD PLAYERS
CDP312/CDPC345 ..... £149/£229
CDP715E/CDP915E £249/299
CDPX100 ..... £799.00
LASER DISC PLAYERS
MDP 650/MDP 850 ..... £599/£699
DAT RECEIVERS
WMD DT-1 ..... £279.00
DTC 690/DTC 60ES ..... £599/£799
TCD D7 ..... £449.00
MINI DISCS
MDS101/MDS501 ..... £699/£799
MIDI SYSTEMS
COMPACT 190/195 ..... £329/£379
COMPACT 290/295 ..... £399/£449
COMPACT 490 ..... £499.00
MINI SYSTEMS
MHC450/550 ..... £299/£329
MHC650/2900 ..... £379/£499
MHCC50/C70 ..... £499/£599
MHC4900/5900AV ..... £799/£999
MHC7500 AV ELECTROSTATIC £1400

YAMAHA

AUTHORISED DEALER

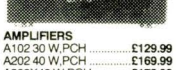
AMPLIFIERS
AX430 55WPCH £199.00
AX470 65WPCH £239.00
AX570 100WPCH £289.00
TUNERS
TX350L £129.00
TX470 ..... £159.00
TX670RDS £239.00
CASSETTE DECKS
KX380/KX480 ..... £169/£199
KX580/KX670 ..... £249/£289
DOUBLE CASSETTE DECKS
KXW282 ..... £199.00
KXW482 ..... £249.00
KXW952 ..... £499.00
CD PLAYERS
CDX480/CDX580 ..... £199/£249
CDX880/CDX645 ..... £339/£279.00
GRAPHIC EQUALISERS
EX550 ..... £199.00
YST MINI SYSTEM
CC70W EX. SPEAKERS £599.00
NXS20 SPEAKERS FOR ABOVE £480
EFFECT SPEAKERS
NSE80 ..... £119.00
NSC80 ..... £99.00
NSC110 ..... £149.00
YSTSW50 ..... £199.00
YSTSW100 ..... £259.00
YSTSW200 ..... £399.00
SPEAKERS
NS10M £259.00
NS1000 ..... £1299.00

PIONEER
BUILDING ON IT

PIONEER

AUTHORISED DEALER

A300X £179



AMPLIFIERS
A102 30 W,PCH £129.99
A202 40 W,PCH £169.99
A300X40 W,PCH £179.00
A400 60 W,PCH £259.99
A400X60 W,PCH £249.00
A602 80 W,PCH £269.00
VSA701S/D802S ..... £499/£599
TUNERS
F202L/401L ..... £129/£179
F301RDS/502RDS ..... £199/£249
F502RDS/F93 ..... £259/£649
LAZER AND VISUAL
CLD800/1850 ..... £399/£579
CLD2850/CLDM5 ..... £699/£599
CLD 150K £849.99
SDT5000/4000TV ..... £3999/£3300
CD PLAYERS
PD102/202 ..... £149/£169
PDS502/602 ..... £229/£269
PDS702/802 ..... £309/£349
PDS901/PD77 ..... £499/£1099
CD PLAYERS MULTI
PDM602/M701 ..... £269/£329
PDM901/M802 ..... £449/£449
PDTM3, 18 DISCS £499.00
CASSETTE DECKS
CTS220/320 ..... £169/£199
CTS420/520 ..... £249/£279
CTS620/620G ..... £329/£339
CTS920S/CT95 ..... £679/£999
TWIN CASSETTE DECKS
CTW420R/620R ..... £199/£249
CTM601 MULTICTW820R ..... £379/£299
TURNTABLES
PL225/335 ..... £119/£149
GRAPHIC EQUALISERS
GR555/777 ..... £199/£249
MIDI SYSTEMS
J200/300 ..... £399/£549
3400/500 ..... £649/£779
JV600/J700 ..... £879/£999
J-M11D Inc Laser Vision Disc player £1199
MINI SYSTEMS
N50W/70W ..... £349/£399
N70WM/100W ..... £449/£499
N0100WM £549

NAKAMICHI

AUTHORISED DEALER

CASSETTE DECKS
DR3/DR2/DR1
CD PLAYERS
CD4/NB3/NB2
AMPLIFIERS
IA1/IA2
TUNERS
ST72/ST7

RING FOR BEST PRICE

BEYER DYNAMIC

HEADPHONES
DT331/311 ..... £49/£44
DT511/801 ..... £99/£149

marantz

AUTHORISED DEALER

A300X £179



TUNERS
ST40/ST53L ..... £139.90/£169.90
ST63/ST72L ..... £229.90/£229.90
CASSETTE DECKS
SD53/SD63 ..... £229.90/£269.90
SD415 ..... £209.90
CD PLAYERS
CD53 ..... £199.90
CD52MKII SE AWARD £299.99
CD63 ..... £249.99
CD72 ..... £499.99
CD10 ..... £1099.90
AV AMPS
PM700AV ..... SPECIAL
AV500PREE £599.99
MA500 POWER £249.99
SPEAKERS
DS110/220 ..... £199/£299
DS440/660 ..... £499/£699
DCC RECORDERS
DD82/DD92 ..... £399/£799
AMPLIFIERS
PM3240W,PCH £139.99
PM43 55W,PCH £229.99
PM53 70W,PCH £249.99
PM63 65W,PCH £299.99
PM80 100W,PCH £479.99
PM44SE £199.99
PM54SE £299.99
PM525E £299.90
PROFESSIONAL RECORDERS
CP130/CP230 ..... £249/£399
CP430/PM0222 ..... £499/£329
RECEIVERS
SR52/SR53 ..... £139/£169
SR73/SR82 ..... £699/£849

NAD

AUTHORISED DEALER

AMPLIFIERS
302/304 ..... £179/£239
306 ..... £349.00
TUNERS
402 ..... £169.00
PRE AMPS
1000/1000S ..... £209/£339
PRE TUNERS
1600/1700 ..... £359/579
POWER AMPS
2100/2700 ..... £309/£469
208 POWER £899
902/906 ..... £199/£499
CASSETTE DECKS
602/6100f15E199/£309
CD PLAYERS
5000/501/502 ..... £319/£179/£229
SPEAKERS PAIRS
801/800 ..... £99/£149
802/804 ..... £229/£329
RECEIVERS
701/705 ..... POA

HARMAN KARDON

AUTHORISED DEALER

AMPLIFIERS
HK6150/6250 ..... £199/£279
HK6350R/6550 ..... £399/£429
HK1200/AVR30 ..... £279/£1149
TUNERS
TU9200/9400 ..... £219/£299
CD-PLAYERS
HD7400/7450 ..... £199/£219
HD7500/7525 ..... £259/£449

DUAL

AUTHORISED DEALER

TURNTABLES
CS430 ..... £129.9
CS505-2 ..... £179.99
CS2215 ..... £179.99
CS505-4/CS-705-1 ..... £229/£349

Visit our Showrooms

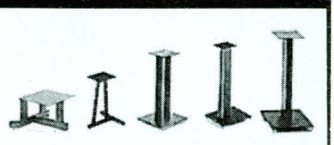
Open Mon-Sat 9am-6pm

Please ring before coming for stock availability

BARGAIN CORNER

CD PLAYERS
PIONEER PD202 ..... £129
PIONEER PDS702 ..... £249
PIONEER PD801 ..... £199
SONY CKP411 ..... £159
SONY CDP711 ..... £249
CASSETTE DECKS
SONY TCW435 ..... £149
SONY TCFX150 ..... £99
SONY TCWR635 ..... £239
SONY TCFX311 ..... £129
PIONEER CTS410 ..... £149
PIONEER CT620 ..... £249
PIONEER CTW420R £149
PIONEERCTS320 ..... £149
PIONEERCTS420 ..... £179
PIONEER CTS620 ..... £199
KENWOOD KXW6050 ..... £169
KENWOOD KW4050 ..... £149
KENWOOD KX5530 ..... £179
SONY TCK611S £239
MIDI SYSTEMS
SONY COMPACT 259 ..... £449
PIONEER J50 ..... £899
PIONEER J10 ..... £439
KENWOOD M27 ..... £439
MINI SYSTEMS
KENWOOD 301 ..... £379
SONY MHC3800 ..... £629
SONY MHC2750 ..... £549
SONY MHC2800 ..... £449
PIONEER N33M £349
PIONEER N53M £449
PIONEER N93M £749
PIONEER N93T £699
SONY
TAF211 ..... £99.95
TAF242 ..... £119.95
TAF319R £129.95
TAF442 ..... £159.95
TAF440E £159.95
TAF244E ..... P.O.A.
TAF540E £169.95
TAF542 ..... £169.95

TARGET STANDS IN STOCK



T20, T50, T70, ST30, ST50, ST70 ..... P.O.A.
RING FOR BEST PRICES

EX-DISPLAY

THESE ARE ONE ONLY GENUINE PRODUCTS AT PHENOMENAL SAVINGS. ALL ARE NEW IN MAKERS BOXES AND FULLY GUARANTEED FOR 12 MONTHS

CD PLAYERS
MARANTZ CD52SEM2 ..... P.O.A.
MARANTZ CD10/CD53 ..... P.O.A.
MARANTZ D72/CD63 ..... P.O.A.
NAD502 ..... £179
NAD505M/5000 ..... £219/£199
KENWOOD DP2050/3050 ..... £139/£159
KENWOOD DP5050/7050 ..... £219/£299
CASSETTE DECKS
SONY TCK611S £229
SONY TCK511S £169
KENWOOD KXZ3050 ..... £149
KENWOOD KXZ5530 ..... £179
AV AMPS & RECEIVERS
KENWOOD KRV6050/6060 ..... £299/£299
KENWOOD KRV7050/7700 ..... £249/£529
SONY STRD 511/611 ..... £239/£289
SONY TAAV570KIT £449
SONY SAVA3/TAAV510 ..... £369
TECHNICSSAGX550LK £419
TECHNICS SAGX350LK £289
MARANTZ PM700AV £329
AMPLIFIERS
MARANTZ PM44SE/52SE ..... P.O.A.
MARANTZ PM63/54SE ..... P.O.A.
KENWOOD KA1030/2060R ..... £109/£149
KENWOOD KA302SE/5050 ..... £179/£299
NAD 302/304 ..... £129/£169
PIONEER A400/A400X ..... £189/£239
PIONEER 102/602 ..... £99/£249
JVC AXR502/742 ..... £189/£269
SPEAKERS
TANNOY 603M2/605M2 ..... £109/£139
TANNOY 607M2/609M2 ..... £179/£239
TANNOY 611M2/615M2 ..... £359/£669
BOSE AM5 ..... £499
BOSE AM3 ..... £309
BOSE AM7 ..... £599
CANNON 530 ..... £139
JBL TLX140 ..... £279
JBL TLX120 ..... £149
JBL TLX150 ..... £249
B&W 620I/M2 ..... £299
B&W 600M1 ..... £99
CERWIN VEGA AT40 ..... £299
JAMO ART £169
NAD 800/802 ..... £119/£289
CELESTION 7/5 ..... £139/£179

BOSE SPEAKERS

SPECIAL OFFER
PART EX. YOUR SPEAKERS & GET UP TO
£200 OFF
ACOUSTIMAS 7M2 £829 NOW £629
ACOUSTIMAS 5M2 £759 NOW £559
ACOUSTIMAS 3M2 £499 NOW £349
WHEN PART EXCHANGE NOW PRICES ARE VALID
FREE COLLECTION & DELIVERY MAINLAND UK

KENWOOD

AUTHORISED DEALER

KR-V6060
£349



AMPLIFIERS
KA1030 65-WPCH £139.00
KA2060R 65-WPCH £169.00
KA3020SE 50-WPCH £199.00
KA3060 80-WPCH £229.00
KA4050R 70-WPCH £279.00
KA5020 80-WPCH £249.00
KA5050R 95-WPCH £349.00
KA7050R 100-WPCH £499.00
TUNERS
KT 1060L £119.00
KT 2050L £149.00
KT 3050L £179.00
KT 6050 ..... £299.00
CASSETTE DECKS
KX3050 ..... £169.00
KX3550 ..... £229.99
KX7050 ..... £329.00
KX7050S £399.00
KX9050 ..... £549.00
TWIN CASSETTE DECKS
KXW 4060 ..... £179.00
KXW 6060 ..... £199.00
KXW 8060 ..... £259.00
CD PLAYERS
DP2050 ..... £169.00
DP3050 ..... £199.00
DP5050 ..... £269.00
DP7050 ..... £349.00
DPR4060-5 DISC £199.00
DPM6060-7 DISC £249.00
GRAPHIC EQUALISERS
KE2060 7 BAND £149.00
GE7030 ..... £229.00
MIDI SYSTEMS
M28/28G ..... £499/£599
M47/47MG ..... £599/£749
M56BG/57MG ..... £799/£849
M76BG/77MG ..... £949/£999
M97G/97MG ..... £1249/£1299
SPEAKERS
CM7ES/5ES ..... £99/£79
SW900/700 ..... £259/£299
CS6-CENTRE/OMN17 ..... £149/£169
MINI SYSTEMS
UD302/351M ..... £399/£499
UD501/551M ..... £599/£649
UD701/751M ..... £749/£799
UD901/951 ..... £999/£1049
TURNTABLES
P100FOR MINI SY STEM £89
KD491F £99.00

SPEAKERS

JBL

AUTHORISED DEALER

SPEAKERS
TLX110/120 ..... £149/£179
TLX130/140 ..... £249/£349
TLX150/160 ..... £299/£399
TLX170/180 ..... £449/£549
HTS 1+/3+ ..... £699/£1099
HUG1/G2 ..... £199/£399

Canon

AUTHORISED DEALER

SPEAKERS
SC10/S30 ..... £119/£159
S50/S70 ..... £319/£549
S50ST/2 ..... £379.99
VSB100/V100 ..... £229/£199

CERWIN VEGA

AUTHORISED DEALER

SPEAKERS
L7/SAT6 ..... £149/£229
VS8/VS10 ..... £249/£349
VS12/VS15 ..... £549/£699
DC10 ..... £849.99

SENNHEISER

AUTHORISED DEALER

HEADPHONES
HD320/330 ..... £34/£49
HD340/520 ..... £59/£84
HS530/540 ..... £89/£109

CELESTION

AUTHORISED DEALER

1/3 ..... £99.99/£119.99
5/7 ..... £159.99/£209.99
9/11/15 ..... £259.99/£279.99/£369.99

Wharfedale

AUTHORISED DEALER

CRS3/5 ..... £89/£129
CRS7/9 ..... £199/£299
MODUS CNB/MICRO ..... £69/£99
MODUS MINIMONITOR ..... £129/£149
MODUS CENTRE ..... £99/£49

mission

AUTHORISED DEALER

SPEAKERS A PAIR
760i £129.99
760iSE BEST BUY £149.99
762i £249.90
763i £379.90
764i £479.90
765i £679.90
780SE BEST BUY £239.95

Jamo

AUTHORISED DEALER

Silhouette £379.99
Art £219.99
Comet 60.2 ..... £169.99
Concert II £329.99
D165 ..... £169.99
Centre 100 ..... £129.99
Outdoor £109.99

B&W

AUTHORISED DEALER

DM600I £179
DM610I £239
DM620I £399
DM630I £649
6001FS-CWM5 ..... £179/£149
SOLID MONITOR/TEAM ..... £229/£129
SOLID BASS, ST £349
TWIN BASS £199
SOLID OVAL £299
VERTICAL £399

TANNOY

AUTHORISED DEALER

603ii £139.99
605 ii £169.99
607 ii £219.99
609 ii £294.99
611 ii £429.99
615 ii £749.99
6SE £89
6S5 ..... £89

Technics

AUTHORISED DEALER

AMPLIFIERS
SUVZ220K 30W,PCH £129.00
SUVZ230K40W,PCH £169.00
SUA600K 40W,PCH £199.00
SUA700K 45W,PCH £249.00
SUA800K 55W,PCH £329.00
SUA900K 80W,PCH £399.00
SUE2000K PREAMP £699.00
SEA2000K POWER-100W £1049
TUNERS
STGT 650LK-RDS £229.00
STGT 550LK-RDS £189.00
ST610LK £129.00
CASSETTE DECKS
RSTR373K TWIN £179.00
RSTR474K TWIN £199.00
RSTR575K £249.00
RSTR979K £379.00
RSBX501K £179.00
RSBX646K £229.00
RSBX747K £299.00
CD PLAYERS
SLPD667 ..... £179.00
SLPD867 ..... £199.00
SLPG340AK £149.00
SLPG360AK £149.00
SLPG440AK £169.00
SLPG560AK £199.00
SLPS740AK £249.00
SLPS840K £429.00
SLP2000K £995.00
EQUALISER
SHE85K £149.00
SHE51K £119.00
MIDI SYSTEMS
CDX120-40WPCH £699.00
CDX320-50WPCH £799.00
CDX520-60WPCH £899.00
MINI SYSTEMS
SCCH404-35WPCH £499.00
SCCH505-50WPCH £599.00
SCCH515-MULTI CD £649.00
SCCH750-50WPCH £799.00
SCCH950-PRO LOWE £999.00
SCCH909D-DAC £999.00

AIWA

AUTHORISED DEALER

AMPLIFIERS
XA003 40WPCH £139
XA950100WPCH £229
TUNERS
XT003/950 ..... £119/£149
CASSETTE DECKS
ADF450/850 ..... £119/£229
DOUBLE CASSETTE
ADWX727/828 ..... £169/£199
ADWX929 ..... £249
CD-PLAYERS
DXM100 ..... £149
XC300 ..... £149
XC750 ..... £199
XC950 ..... £249
MIDI SYSTEMS
Z650 ..... £369
Z720 ..... £399
Z1100 ..... £399
Z1700 ..... £499
ZD3100M £599
ZD1000M £799
ZD700M £799
ZD9100M £899
MINI SYSTEMS
NSX270 ..... £279
NSX340 ..... £299
NSX400 ..... £299
NSX430 ..... £299
NSX550G £429
D636 ..... £449
NSXD737 ..... £499
D939 ..... £749
NSX450G £349
NSX520 ..... £349
MICRO SYSTEMS
LCX50/7 ..... £249/£299
LCX60/65 ..... £299/£299
LCX9/70M ..... £349/£379

JVC

AUTHORISED DEALER

AMPLIFIERS
AXR5BK/562 ..... £249/£249
AXA372/472 ..... £199/£249
AXA662/Z1010 ..... £329/£649
TUNERS
FX362/FX572 ..... £129/£199
CASSETTE DECKS
TDW106/208 ..... £119/£169
TDW308/708 ..... £199/£249
TDX372/472 ..... £169/£199
TDW562/662 ..... £219/£269
CD PLAYERS
XLM408/MC100 ..... £299/£799
XLV174/274 ..... £139/£159
XLVZ574/674 ..... £249/£299
MINI SYSTEMS ADAGIOS
S20/S30 ..... £369/£429
S50/S50R ..... £469/£499
G7/G9 ..... £799/£999
MIDI SYSTEMS
W48CD/58 ..... £429/£499
MICRO SYSTEMS
UXTI/UXA4 ..... £299/£349
UXC7/A55R ..... £359/£369

MAIL ORDER 081-520 7277

Please supply _____

I enclose cheque/PO for £ _____

Expi y Date _____

Name _____

Address _____

Postcode _____

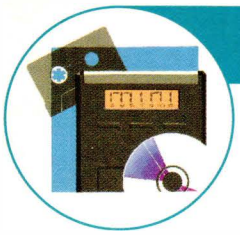
Tel _____

HFC 7/94

Myers Audio

Myers Audio

We Guarantee Best Deals



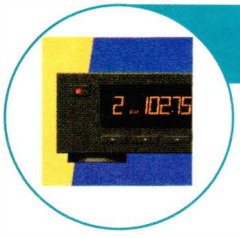
Systems

Systems is a generic title that we've chosen to describe any form of complete system package. Fundamentally what we're talking about here is midi and mini systems, you know those all singing all dancing, lights blazing systems that hi-fi snobs are allergic to.

Sold on the basis of their abilitiy to play virtually all mediums at the flick of a remote control switch stack systems offer a plethora of features, and the dearer the system the more complex they tend to become. With things like double cassette decks, multi preset tuners, CD players and graphic equalisers supplied as standard the big boys of the stack world offer such luxuries as Surround Sound, separate chassis for different components and occasionally a record player. They usually have a few line inputs for extra sources and a few are available without loudspeakers. As the latter are often the weakest part of a stack system buying good quality speakers separately will bring worthwhile improvements. The section headings for stack systems include size of the complete stack without speakers and rated output per channel — where a system has more than two channels this is indicated in the comments . Tuner presets and the existence of a remote control are self explanatory. A blob in loudspeakers shows that they supplied, an "o" indicates that they are optional. The final column is for those of you with records to play.

Systems

Product	£Price		Comments	Size: HxWxD (cm)	Rated output Watts	Tuner presets	Remote control	Loudspeakers	Turntable	Issue No.
▲ Denon D110/S	870	G	Nearly hi-fi from pretty but pricey silver stack; richer, fuller speakers would help	37x27x33	40	30	•	o		125
Goodmans System 700	600	A	Separates flexibility and upgraeability in remote midi package; anodyne sound	69x35x37	50	20	•	•	•	125
▲ JVC Adagio G7	799	A	Wondrous 2-speaker surround movie sound system, but a very uneven package elsewhere. Four by 20W output	42x28x28	20	40	•	•		125
▲ Kenwood HD-1000	1000	E	Mini lifestyle system, well built with minimalist facilities and exacting performance standards all round	30x27x35	40	30	•			131
Marantz 1020	1000	G	Component lifestyle system which is as elegant on audition as it is to look at	22x42x32	30	20	•			131
Onkyo L-909	1200	G	Simple yet flexible lifestyle mini system suffers iffy cassette deck set-up, but otherwise satisfies	38x28x32	40	30	•			131
Philips FW91	999	A+	Good looking and performing package rendered expensive by inclusion of DCC deck	37x26x32	60	30	•			125
▲ Technics SC-CH950	1000	A+	Classy if rather bland allrounder includes useful Dolby Pro-Logic AV capabilities	42x27x34	60	39	•	•		125



Tuners

The radio medium operates at a much lower profile than TV, but in areas outside pop music the BBC service is the envy of the world. Live Prom concerts can rival all other sources from a hi-fi perspective.

Only the FM (VHF) bands give stereo hi-fi sound, though AM (MW & LW) are useful for certain transmissions in the UK.

Something of a hi-fi afterthought, tuners are often selected merely to match a chosen amplifier cosmetically. However, the task they carry out is far from simple, combining the skills of RF (reception) and audio (signal processing) engineering. The importance of the former will depend on local reception conditions, but money invested in a high quality outside aerial system is well spent.

Tuners come in two basic types. Analogue models tune gradually (and usually manually) across the bands, and can have analogue or digital displays; they are often preferred for sound quality, and are certainly best for AM bands. Digital tuners offer convenient automatic tune facilities and pre-set memories.

The 'Presets' column heading shows how many different frequencies a tuner can memorise for instant station access. FM, LW and MW shows which wavebands a tuner can access. 'Signal strength meters' are useful for aerial alignment. 'Automatic tuning' means that a tuner can seek out signals for you.

Tuners

Product	£Price		Comments	Presets	FM	LW	MW	Signal strength meter	Manual tuning	Automatic tuning	Issue No.
Aiwa XT-003	120	A-	Economically designed and built in the UK, but trade-offs have a marked influence on FM and AM sound quality.	30	•	•	•		•	•	93
▲ Aiwa XT-950	150	A	Decent enough performance all round given the modest price, though RF tweaks have limited value	24	•	•	•	•	•	•	129
Arcam Delta 280	350	G+	Fine sound quality marred by mild synthesiser whine; RF performance only average, remote £60 extra	20	•			•	•	•	120
▲▲ Audiolab 8000T	700	VG	Unusually combines fine sound quality and RF performance (inc AM); superb ergonomics are a joy to use	39	•	•	•	•	•	•	120
Aura TU-50	300	G	Tonally neutral, but with rather poor imaging and a certain woodenness to the sound.	16	•				•		109
▲▲ Denon TU-260L	120	G+	Bare minimum of features. Careful designwork promises a surprisingly open and vivacious sound, so don't overlook it!	20	•		•		•	•	93
▲ Denon TU-580RD	220	G	Fine feature package including remote and RDS, plus excellent RF performance and decent sound quality	30	•		•	•	•	•	120
Harman Kardon TU9200	219	A	The listening panel appreciated its liveliness, but found it a little muddled.	32	•		•		•	•	109
▲ Harman Kardon TU9400	299	G+	Striking in appearance and with a sound to match, it comfortably exceeded our expectations. On stereo FM it's HK's best yet.	24	•		•	•	•	•	93
Harman Kardon TU9600	499	G	Good bass and detail, and good - perhaps slightly enhanced dynamics	24	•		•		•	•	109
JVC FX-362	140	A-	Disappointing all round performance — watch out for aerial input overload in strong signal areas. Tuning knob unspecial	40	•	•	•		•	•	129
Kenwood KT2050L	150	A-	Decent RF capabilities despite simple front end. Sounds a bit bright and ergonomics are a bit complex	30	•	•	•		•	•	129
Kenwood KT-3050L	170	A	Excellent RF performance and plenty of features including RDS, but did sound rather ordinary under our conditions	39	•	•	•	•	•	•	120
▲ Linn Kremlin	1995	E	Controversially good sound at a very high price. The reviewer's saving up but you should check it out for yourself	80	•			•	•	•	120
▲ Magnum Dynalab FT101	825	G+	Although expensive for its fairly minimum set of facilities, its excellent sound makes up for what it lacks elsewhere		•			•	•		72
Marantz ST-53	170	A+	Sweet sound could well satisfy audiophile sensibilities, but selectivity is not great	59	•	•	•		•	•	129
▲ Meridian 604	1350	VG	Unique digital convertor makes most sense in Meridian system context; smooth sweet sound with fine front end	30	•			•	•	•	120
▲ Naim NAT 01	1453	E	There may be better sounding tuners in the world, but we have yet to hear one		•				•		50
▲ Quad FM4	434	G+	Fine sound, excellent ease of use, good build and finish and a more than satisfactory technical performance	7	•			•	•		50
Quad 66	532	G+	Very pretty and compact but technically unadventurous. Smooth sound but only makes sense in Quad system context	19	•			•	•	•	120
▲ Rotel RT-930AX	175	G-	A competent rather than exciting performer, with low audible interference though slightly compressed and muddled sound.	20	•	•	•			•	108
Sherwood TX-3010C	120	A	Lots of features and fine RF discrimination for price. Sound is communicative but inconsistently tacky	30	•		•	•	•	•	120
▲▲ Teac T-X4030	120	A	Not exactly special, but still a well balanced, tolerable and capable allrounder at a very reasonable price	20	•		•		•	•	129
Yamaha TX-350L	130	A-	Enticingly pretty and compact presentation but performance isn't great; beware of aerial overload	40	•	•	•	•	•	•	129

Sound Sense

For a musical experience try our fidelity

350 EDGWARE ROAD, LONDON W2 1EA

Tel: 071-402 2100 Fax: 071-724 7750

Estd 1976

PRICE PLEDGE

WE WILL MATCH OR BEAT ANY AUTHORISED DEALER ADVERTISED PRICE

AMPLIFIERS

AUDIO INNOVATIONS
Alto
L1 £299.00
Series 500 £999.00
AURA
VA50 £249.90
VA100 £299.90
VA100C £349.90
CAMBRIDGE
P25 £134.90
C70 PRE/P70 POW £375.00
DENON
PMA250III £159.90
PMA350II £219.90
PMA450 £249.90
PMA480r £219.90
HARMAN KARDON
HK6150 £199.90
HK6250 £279.90
HK6350R £399.90
HK6550 £429.90
HK1200 £279.90
KENWOOD
KA1030 £129.90
KA3020SE £199.90
KA4040 £249.90
KA5050 £349.90
MARANTZ
PM53 £249.90
PM44SE £199.90
MUSICAL FIDELITY
AIMII £299.90
NAKAMICHI
IA1 £749.90
IA2 £599.90
IA3 £349.90
NVA
AP35 £295.00
PIONEER
A300X £229.90
A400 £279.90
A400X £299.90
A602 £349.90
ROTEL
RA920AX £147.90
RA930AX £159.90
RA935BX £199.90
RA940BX £249.90
RA960BX £299.90
RA980BX £399.90
RB960BX £210.00
RC980BX £325.00
RB980BX £425.00
SONY
TAF211B £149.90
TAF242B £179.90
TAF442B £249.90
TAF542B £299.90
TECHNICS
SUVZ220 £109.90
SUVZ320 £134.90
SUA600 £199.90
SUA700 £249.90
SUA800 £329.90
SUA900 £399.90
SUVX920 £394.90
YAMAHA
AX470 £239.90
AX570 £289.90

TUNERS

AURA
TU50 £299.90
DENON
TU260L £119.90
TU380RD £189.90
TU580RD £219.90
HARMAN KARDON
TU9200 £219.90
TU9400 £299.90
MARANTZ
ST53 £169.90
ST63 £199.90

***FREE DELIVERY THROUGHOUT UK MAINLAND ABOVE £250.00**

PIONEER
F202L £129.90
F401RDS £179.90
F676 £199.90
F550RDS £229.90
ROTEL
RT7930AX £159.90
RT950BX £199.90
RTC950AX £419.90
SONY
STS 211 LB £129.90
STS 311 LB £199.90
STS505ES £249.90
TECHNICS
ST610LK £119.90
STG550 £189.90
STG650 £229.90
STG70 £249.90
YAMAHA
TX350L £129.90
TX470 £159.90

CASSETTE DECKS

ADF410 £119.90
ADF810 £229.90
XK57000 £549.90
ADWX828 £199.90
ADWX929 £229.90
DENON
DRM540 £159.90
DRS610 £199.90
DRS710 £259.90
DRS810 £290.90
DRW650 £199.90
DRW760 £249.90
KENWOOD
KX3050 £159.90
KXW4060 £169.90
KXW8060 £259.90
NAKAMICHI
DR1 £849.90
DR2 £599.90
DR3 £399.90
RX202 £599.90
PIONEER
CTS220 £169.90
CTS420 £249.90
CT95 £999.90
SONY
TCFX211 £99.90
TXK311 £149.90
TCK411 £199.90
TCK511 £249.90
TCK611 £299.90
TCW435 £169.90
TCWR535 £199.90
TCWR635S £279.90
TECHNICS
RSBX404 £179.90
RSBX646 £199.90
RSBX747 £299.90
RSTR515 £269.90
RSTR979 £359.90
YAMAHA
KX3080 £169.90
KX4080 £199.90
KX580 £249.90
KX260 £159.90
KX360 £199.90
KX650 £259.90
KXW282 £199.90
KXW482 £249.90
KXW952 £499.90

TURNTABLES

ALPHASON
Solo £439.90
Sonata £759.90
TECHNICS
SLBD20 £129.70
SLBD22 £149.90
SLDD33 £159.90
SLQD33 £199.90
SL1210MII £399.90
THORENS
TD180 £179.90
TD166 VI £264.90
TD166 VI REGA £299.90
TD280 £199.90

CD PLAYERS



DENON
DCD615 £179.90
DCD1290 £329.90
HARMAN KARDON
HD7450 £199.90
HD7225 £229.90
HD7325 £299.90
HD7425 £349.90
HD7525 £449.90
KENWOOD
DP7050 £299.90
MARANTZ
CD52II £199.90
CD52IISE £269.90
CD63 £249.90
CD72 £449.90
CD72SE £549.90
NAKAMICHI
CD4 £379.90
MB3 £649.90
PIONEER
PDS502 £189.90
PDS702 £249.90
PDS802 £289.90
ROTEL
RCD945AX £229.90
RCD955AX £199.90
RCD965BX £299.90
RCD965BXD £349.90
RCD965LE £379.90
RCD965BXLED £399.90
SONY
CDP411 £164.90
CDP711 £199.90
CDP911 £249.90
CDPX303ES £499.90
TECHNICS
SLPG320 £119.90
SLPG440 £139.90
SLPS740 £249.90
SLPS840 £419.90
TEAC
VRDS10 £769.90
YAMAHA
CDX550 £159.90
CDX660 £199.90

CLEARANCE BARGAINS

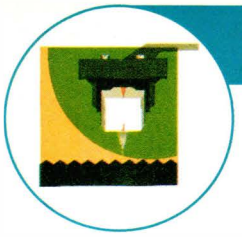
ARCAM
DELTA 60 £210.00
ALPHA 3 £150.00
BB1 £185.00
BB2 £215.00
BB3 £260.00
ALPHA 2+ £195.00
ARCAM 3 £110.00
MARANTZ
CDSIISE £220.00
SR53 £225.00
MUSICAL FIDELITY
MA50 £725.00
A120 £420.00
A1 £270.00
CD2 £290.00
SUGDEN
A48 £310.00
C28PRE £200.00
ROTEL
RT850AL £150.00
RT845AXL £115.00
RA840BX3 £210.00
RA840BX4 £210.00
RD855 £150.00
RD865 £190.00
CELEF
CIRRUS £130.00
NIMBUS £1650.00
SNELL
TYPEK £350.00
TYPE J £525.00
DALI
310 £290.00
HEYBROOK
SOLO £130.00
POINT 7 £120.00
INFINITY
R20 £215.00
R40 £320.00
3001 £220.00

Mail order; simply send your cheque together with your name and address, or phone your access or visa number.

LOUDSPEAKERS

ACOUSTIC ENERGY
AEI £763.75
B+W
2001 £119.90
2002 £159.90
DM600 £179.90
DM610 £239.90
DM620 £399.40
Solid £229.90
SolidTeam £129.90
BOSTON
404V £99.90
525V £149.90
CASTLE
Warwick £229.90
Chester £599.90
CELESTION
1 £109.90
3II £129.90
5II £169.90
7II £219.90
CERWIN VEGA
VS8 £249.90
VS10 £349.40
VS12 £549.90
DC10 £549.90
DC12 £649.90
HARMAN KARDON
LSO200 £149.90
LSO300 £199.90
LSO500 £299.90
INFINITY
Ref 20 £229.90
Ref 30 £329.90
Ref 40 £429.90
Ref 50 £549.90
Ref 60 £749.90
JPW
Sonata £114.90
AP3 £224.90
KEF
K120 £169.90
K140 £239.90
Q10 £199.90
M90 £249.90
M100 £349.90
MISSION
760i £129.90
760isc £149.90
762i £249.90
7641 £479.90
780 £199.90
781 £249.90
780SE £239.90
MONITOR AUDIO
MIGold £189.90
M9-II £289.90
M14-II £469.90
MA201 £249.90
MA202 £399.90
ROGERS
LS2 A/2 £229.90
LS4 A/2 £299.90
LS6 A/2 £399.90
SNELL
TYPE K £499.90
TYPE J £769.90
TANNOY
603 II £129.90
605 II £169.90
607 £189.90
611 £399.90
613 II £599.90
615 II £749.90
TDL
NFM £119.99
RTL1 £199.95
RTL2 £299.95
RTL3 £399.90

FREE £40 SPEAKER STANDS WITH ANY BOOKSHELF SPEAKERS WORTH £150 OR OVER



Turntables – cartridges

Cartridges fall into two groups: high output models, capable of working directly into most amplifiers and categorised as having a normal (N) output, and more expensive low and very low output models (L, VL). Stereotypically, low output cartridges use the moving coil principle of operation, have better mechanical integrity and tighter tolerances, and give better performance but at much higher cost. With CD now the dominant medium many amplifiers are no longer equipped with the necessary phono input for a cartridge and a separate phono stage is necessary. Valve designs need either an extra head amp or transformer to cope with the low output of moving coil cartridges.

Cartridge/amplifier interfacing can be very subtle, but even basic high output MM designs benefit in overall balance from optimised amplifier capacitance loading. The mechanical characteristic of cantilever compliance ('springiness') needs to be considered in the light of the effective mass of the tonearm, and to achieve a good match compare the effective mass requirements figures with the actual effective mass of specific arms. 'turntables' and 'tonearms' sections.

Turntables – cartridges

Product	£Price		Comments	Arm effective mass (g)	Output	MM	MC	Issue No.
▲▲ Arcam C77	30	A+	A sensible moving magnet package with good bounce at a competitive price	6-16	N	•		48
▲▲ Arcam C77Mg	40	A	Punchy sound quality with plenty of extra energy to liven things up. The solid body seems well worth the extra £10	4-8	N	•		67
▲ Arcam E77Mg	60	A	Our sample had a disappointing stylus, but gave a coherent, rich and laid back sound, with good 'scale'	3-8	N	•		48
▲ Arcam P77Mg	73	A+	Preferred to its cheaper partner by virtue of a better tip. Channel balance could have been better	4-9	N	•		48
▲ Audio Note IO IIV	1395	E	One of the best, giving 'an extraordinarily relaxing midrange clarity', needs a transformer	8-18	VL		•	100
▲ Audio-Technica ART1	850	VG	This is a delicate and very fluid-sounding MC that tracks well, offers very low distortion and exceptionally good separation	9-18	L		•	72
▲ Audio-Technica AT-420E	36	A	Better suited to pop recordings, this MM bears some of the sonic hallmarks of the Linn K5	7-14	N	•		67
▲▲ Audio-Technica AT-95E	20	A	Clear, dynamic if richly balanced, the magnetic '95E is a definite Best Buy	8-14	N	•		48
▲ Audio-Technica OC-5	130	G	For the price, it's unusually effortless and detailed, but it tends to become rather relentless and tiring after a while.	5-14	L		•	103
Audioquest AQ 404i-L	500	G+	Slight harshness detracted from the performance of this otherwise clear-sounding and detailed cartridge	8-16	L		•	84
Audioquest AQ 7000	1295	G+	Stunning stereo imaging and good detail at low levels are spoiled by less-than-perfect tracking and high sensitivity to arms.	6-20	L		•	91
Denon DL103	100	A+	Good performance in bass and general 'life' is seriously let down by its spherical stylus which kills subtle details.	9-22	L		•	103
▲▲ Denon DL110	70	G	Firmly recommended as a fine all-rounder, this high-output MC model is likely to perform well in nearly all circumstances	6-16	N		•	48
Denon DL160	90	G	Although listeners just preferred the 110, its brother here proved a twin in lab tests and is still "thoroughly competent"	6-16	N		•	43
▲ Denon DL304	200	VG	Uncolored, detailed, neutral, superb tracking; top notch altogether, and a top notch bargain too.	4-12	L		•	103
▲ Dynavector 17D2	298	VG	Clear, detailed, neutral and generally very informative - excellent .	6-18	L		•	91
Dynavector XX-1	698	G+	Good, but not immensely competitive at the price, and not helped by comparison with the low output version	7-15	N		•	84
▲ Dynavector XX-1L	698	VG	Very clear, very detailed, no troubles with tracking; response lift around 20kHz seems to do no harm	7-13	L		•	84
Empire Benz Micro MC-Gold	150	G	Nothing is obviously wrong, but nothing is stunningly right either. Safe, but perhaps a little too safe	7-17	L		•	103
▲ Empire Benz Micro MC-Silver	150	G	Ultimately not the peer of the MC Gold is more appropriate to the sort of equipment it's likely to be partnered with	8-18	N		•	103
▲ Empire Benz-Micro MC-3	800	G+	Offers a warmer and very transparent account of the music. Its tracking prowess is slightly limited	5-12	L		•	72
Glanz GMC-10LX	80	A+	Bearing some of the hallmarks of the '10EH, the '10LX is still less competitive in the sonic stakes	7-15	L		•	67
▲ Glanz GMC-20E	129	G+	Very good tracking, smooth sound and good detail. Very slight surface noise enhancement	5-10	L		•	91
▲ Goldring 1012	50	G	Slightly harsh sound but plenty of life and quite good detail. Some very high frequency coloration apparent	6-12	N	•		85
▲ Goldring 1022	70	G	As with 1012, a touch harsh; detail and transient purity improved, though, and it goes well with electric guitar!	5-11	N	•		85
Goldring 1042	90	G	Not terribly subtle, and not such good value alongside 1012 and 1022. Quite lively, though	7-12	N	•		91
▲ Goldring Elan	20	A	A lightweight and frisky-sounding MM that appears to be based upon the same body as the Nagaoka mm4	7-15	N	•		67
Goldring Elite	200	G	The basics are right, and it will cheerfully tackle any source material, but its sound possesses a certain dirtiness	8-18	L		•	103
Goldring Eroica H	100	G-	More confused and coloured than low-output LX, high output less of an issue these days	8-15	N		•	84
▲ Goldring Eroica LX	100	G	Not the most subtle cartridge in the world; can sound edgy at times, but lively and informative	8-14	L		•	84
Goldring Excel	549	G	Errs on the warm and heavy side of neutral. Strong bass lines are its forte, but resolution of subtle treble details is weak	6-13	L		•	72
Goldring Excel GS	600	G+	True high end quality in its lack of colorations, but tracking seems indifferent and high levels tend to sound rough and edgy.	9-20	L		•	103
▲ Linn K5	49	A+	Not as crisply focused as the costlier Linn magnetics, the K5 offers a smoother presentation	7-16	N	•		67
▲▲ Linn K9	98	G	Linn threw this model into the leading pack by beefing up the Basik's bodywork and adding a super stylus	6-15	N	•		Col
London Maroon	199	A+	Now manufactured under the London brand name this Decca cartridge is as iconoclastic as ever	9-20	N	•		67
London Super Gold	339	A-	Immediate and detailed, but very coloured, very nonlinear and questionable effect on records. Devotees swear by it	9-15	N	•		84
▲ Milltek Aurora	299	G+	An overall feeling of relaxed ease characterised this clear and atmospheric Kiseki-built cartridge	8-16	N		•	Col
▲▲ Ortofon 510	32	G+	For the price, a good blend of virtues weight, clarity and neutrality.	3-11	N	•		85
▲ Ortofon 520	55	A+	Very sensitive to load capacitance this new Ortofon maintains the company tradition for a lively, effervescent SQ	7-16	N	•		67
▲ Ortofon 530	85	G+	Very clean and assured sound; transients not quite perfectly pure but plenty of detail.	4-11	N	•		85
Ortofon 540	110	A	Graced with FGII stylus but possessed of too high a compliance for broad arm matching. It could also sound a little unforgiving	3-8	N	•		67
▲▲ Ortofon MC10 Super	85	G	"What a delightfully sweet-sounding cartridge this is . . ." we said	5-15	L		•	48
▲▲ Ortofon MC15 Super	110	G+	A good all-rounder, with outstanding performance in detail retrieval, even if it can be very slightly bright and close-up	10-24	L		•	103
▲ Ortofon MC3 Turbo	110	G	Not terribly subtle, but it obviously doesn't aim at that. The 3 Turbo is bright, cheerful and bouncy - take it as it comes!	10-24	N		•	103
▲ Ortofon MC3000 MkII	950	E	Low levels of body resonance are a real ear-opener. Nothing to criticise elsewhere; one of the very best	9-16	VL		•	84
Ortofon MC5000	1500	G	Review sample could not be fully run-in, limited tracking ability, bright and forward sound, though imaging is excellent	12-20	VL		•	91
Rega Bias	34	A+	Difficult to mount in some arms due to its shallow build, the bias offers a gentile, refined SQ	4-10	N	•		67
▲ Rega Elys	74	G	Clearly superior to the Bias, despite their common heritage, the Elys is both more detailed, accurate and musically convincing	8-15	N	•		67
▲ Roksan Corus Black	130	G	Recognisably related to Corus Blue, but distinctly more civilised and smoother.	7-12	N	•		91
Roksan Corus Blue	75	G	Roksan-specified modified Goldring 1012; slight harshness detracts from otherwise good sound.	7-12	N	•		91
▲ Shure ME97HE	55	A+	It won't turn a sow's ear of a turntable into a silk purse, but will at least keep going and produce an acceptable result	8-20	N	•		48
Shure V15 VMR	220	A+	Initial listening gave promising results, but extended familiarity gave the feeling of a lack of energy and a "shut-in" sound	5-12	N	•		38

Do you want to choose your hifi in a comfortable and relaxing environment . . ?

Do you want friendly and helpful advice (and a cup of tea) . . ?

Do you want to buy your system based on what you hear (and not what somebody tells you) . . ?

Do you live in GUILDFORD . . ?

. . . or Addlestone, Aldershot, Ashford (Middx), Ashstead, Bagshot, Basingstoke, Bracknell, Camberley, Chertsey, Cranleigh, Dorking, Epsom, Esher, Farnborough, Farnham, Frimley, Godalming, Hartley Wintney, Haslemere, Hook, Horsham, Kingston, Liphook, Leatherhead, New Malden, Odiham, Petersfield, Reading, Reigate, Redhill, Richmond, Shepperton, Virginia Water, West Byfleet, Weybridge, Windsor, Woking?

Nobody else in these areas stocks all the following major brands: Acoustic Energy, Arcam, Audio Innovations, Audiolab, Aura, B&W, Celestion, Creek, Cyprus, Dali, Epos, Deltec, Harman Kardon, heybrook, Infinity, JPW, KEF (Reference), Linn Products (including records), Marantz, Meridian, Mission, Musical Fidelity, NAD, Nakamichi, Onix, QED (Systemline), Quad, Rega, Revox, Rogers, Rotel, Sony, Supra, Sound Org, Target, Yamaha (including Home Cinema Systems) & Top Tape.

Visit us first and you won't need to go anywhere else, we have superb demonstration rooms where you can decide in comfort, and we will deliver and install free of charge (and part exchange is possible).

Complete service – We are the only outlet in the area to offer the *complete* service. As well as stocking selected items from the above manufacturers we are able to serve and/or repair *on the premises* all the above brands (and others also).

The Hi Fi Shop

Guildford's only *REAL* Hi-Fi shop

BADA BONDED
Customers' deposits are guaranteed by the British Audion Dealers Association
Ask for full details
BADA THE ULTIMATE IN SOUND ADVICE

We are at:
3 BRIDGE STREET, GUILDFORD
(by the traffic lights –
next door to Alfred Marks)

Telephone for special offers available on selected ex-demonstration items

0483 504801 • 0483 304756

Access • Visa • Switch Open Monday – Saturday 9am – 6pm (later by appointment)

Turntables – cartridges continued

Product	£Price		Comments	Arm effective mass (g)	Output	MM	MC	Issue No.
van den Hul Grasshopper IIIGLA	3200	E	Undoubtedly one of the finest cartridges available, it has tremendous bandwidth, energy and finesse	6-10	L		•	122
van den Hul MC One	975	G+	This extended all the positive qualities of the '10 but added greater authority and scale worth it for the extra money	6-12	L		•	60
van den Hul MC One/High	1100	G+	Slight softening on transients was the only real flaw, but it didn't quite seem to have that special touch one expects	8-15	L		•	84
van den Hul MC Two	1300	G+	Connected directly to any standard MM input it rewards with a highly detailed yet fluid and musically convincing portrayal	6-13	N		•	72
van den Hul MC10	775	G+	A neutral balanced performer giving transparent midrange, fine depth and focus with firm extended bass. Gosh!	5-10	L		•	60
van den Hul MM1	275	G+	If woody midrange coloration could be tamed, the excellent imaging and admirable security would make it excellent	7-15	L		•	103



Turntables and tonearms

Specialist turntables are what high fidelity sound is all about, CD may offer silent backrounds and flat frequency responses but they can't match the dynamics and superlative timing that serious turntable users take for granted. Turntables at the cheaper end of the market (sub-£350) tend to be supplied with matching tonearm, and often include a 'starter' cartridge. Still better quality is found at higher prices amongst the separate motor units and tonearms. Careful partnering and set-up is essential for these components, but 'sympathetic' combinations exist.

The columns show from left to right, 'arm effective mass' relates to cartridge compatibility with regard to compliance (springiness) and is explained in the 'Cartridges' introduction. 'Suspended suchassis' — decks which have some form of internal isolation, generally in the form of springs but occasionally more solid materials such as rubber. 'Manual' and 'Automatic' refer to the operational tendencies of the deck/arm combination — automatic high end turntables are as rare as hens teeth. 'Cartridge' — if one is supplied. 'Belt drive' as opposed to direct drive is the preferred method in most quality decks. An 'Electronic PSU' offers switchable speed change and a 'smoother' power supply for better sound.

Turntables

Product	£Price		Comments	Arm effective mass (g)	Suspended subchassis	Manual	Automatic	Cartridge	Belt drive	Electronic PSU	Issue No.
Alphason Sonata/HR100S MCS	1785	G+	Good sound in all areas - bass, clarity and neutrality all in the top class and bettered by very few decks at price	13	•	•			•	•	79
Dual CS-503-2	160	A	Not wholly inspiring; generally coarse and wooly sound is at least not offensive, but easily bettered by the CS505-4	10			•	•	•		91
Dual CS-505-4	200	A	Consistent sounding and well isolated turntable. It is slightly lacking in balls, compensates with a consistently unmuddled presentation	10			•	•	•		103
Kuzma Stabi/Stogi Reference	2000	G+	Beautifully made solid oak plinth, the Stabi also sounds very clear, detailed and extended. Stogi Reference is very capable.	12	•	•			•		91
Linn Basik	299	A+	Strong midband analysis and imagery, clean if sharp treble is matched to a good if occasionally wooden bass	10		•		•	•		103
Linn LP12 Basik/Akito	904	G	Trails the full LP12 significantly, but pace, rhythm, timing etc. still in top class, and bass tauter than of old	10	•	•			•		103
Linn LP12-Lingo/Ekos	2642	G+	The classic reference is improved by the Lingo but charming character remains. Ekos is well made and suited to many decks	9	•	•			•	•	91
Michell Gyrodec	697	G	Sweet and natural sounding player, well suited to Rega RB300. Aesthetics, and the acres of clear acrylic are very distinctive	NA	•	•			•	•	55
Michell Syncro	325	G	A happy blend of qualities endows the stylish Syncro with a blend of subtlety and force - the mailed fist in the velvet glove	NA	•	•			•		67
Pink Triangle Anniversary	1495	E	Possibly the most detailed, clear and neutral deck around. Likeness to master tape is uncanny	NA	•	•			•	•	91
Pink Triangle Export	890	E	The PT TOO with built in PS. Retains features of great transparency and neutrality. Review sample had highish motor noise	NA	•	•			•	•	91
Rega Planar 2	185	G	A remarkable product at the price, surprisingly articulate and confident	11.5		•			•		48
Rega Planar 3	250	G	A long time leader in its category, the '3 (with excellent RB300 arm) sounded nicely 'musical' in a balanced and coherent manner	11.5		•			•		48
Roksan Radius/Tabriz zi	740	G	Design is subtle, refined and easy on the eye. Musically it offers exceptional performance with a minimum of fuss	9		•			•		103
Systemdek 1.920	235	A-	The motor unit is derivative of the Rega Planar 2 with a Moth arm. Up tempo even bright at times but never lacks enthusiasm	12		•			•		115
Systemdek IIX/900	230	G	A high performance budget turntable which is particularly strong at fine detail resolution and imagery	NA	•	•			•		103
Systemdek IIXE/900AP	388	G+	The acrylic platter'd IIXE is one of the most capable budget decks on the market, good resolution, dynamics and timing	NA	•	•			•	•	103
Thorens TD-3001/TP90SF	760	G	Excellent middle ranking esoterica, with strong all round abilities rather than excellence in particular areas	NA	•	•			•	•	103
Thorens TD166 VI/UK/RB250	280	A-	Refined and articulate sound with well focused imagery, suitable for use with good MM and budget MC cartridges	11.5	•	•			•		103
Thorens TD2001	650	G-	Similar to TD320 but much dearer - why? Sound is comfortable but not very detailed	15	•		•		•		91
Voyd 0.5	3368	E	Halfway between standard and Reference Voyds with the latter's platter and bearing. Superb finish, colourful and dynamic sound	NA	•	•			•	•	72
Voyd Reference	5950	E	Voyd's flagship, equipped with three substantial motors, a Lexan platter and brute PS. A strong contender for world's best	NA	•	•			•	•	C91
Well Tempered WTAT	1690	G+	Intriguing/challenging design. Musically it is not ideal, but has a limpid quality and a lack of artificiality that sets standards	7.5		•			•		67

Tonearms

Product	£Price		Comments	Effective mass (g)	Height adjustment	Pivoted	Parallel tracking	Issue No.
Alphason HR100S	490	VG	S-shaped arm sounds smooth, but nevertheless reproduces transients with fine attack	10	•	•		C86
Kuzma Stogi Reference	1000	VG	Large, solid and well made arm, gives exceptionally clear sound with just a hint of brightness	12	•	•		79
Linn Ekos	1297	VG	Superb, state of the art design which builds significantly on predecessor Ittok's strengths	9	•	•		67
Moth arm	95	G+	The ultimate budget arm? Refined, detailed, sweet and natural	12		•		60
Rega RB300	139	VG	Despite its modest price it sets exceptional performance standards and could be used on many high end turntables	11.5		•		60
Roksan Tabriz	190	G+	Targetted at the Xerxes, this is a good alternative to the Rega arms in many cases - a trifle bright	9	•	•		91
SME 309	568	VG	Beautifully made and finished, fully adjustable, a highly neutral performer	10	•	•		79
SME Series IV	828	VG	Superb engineering and finish with a finely balanced sound, impressive stereo focus and low colouration	10.5	•	•		60
SME Series V	1233	E	Excellent in all respects, this arm arguably sets the standard for pivoted arms regardless of price	10.5	•	•		60

Personal messages

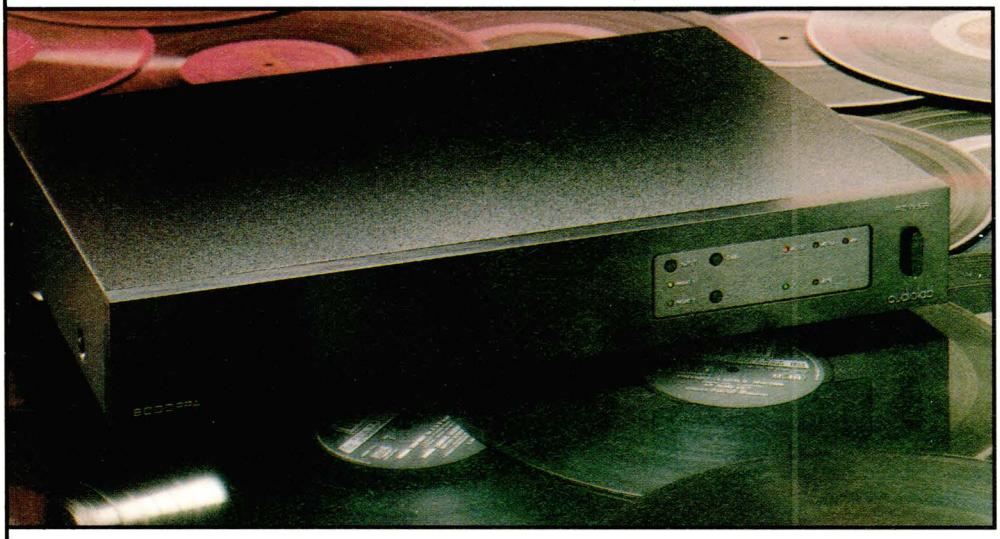


Hi-fi guru Paul Messenger, former editor of *Choice*, takes a close look at a new high-end product from Audiolab which he hopes will lengthen the life of the vinyl disc. The company's *8oooPPa* makes a valiant effort to keep analogue addicts loyal.

Audiolab is not known for surprises. The company's fortunes are built on the *8000A* integrated amplifier. This is a worthy, mid-price product, which has remained cosmetically almost unchanged for 10 years. That it continues to sell better year by year is a credit to the original design concept and its subsequent refinement.

If the *8000A* has developed an image of middle-of-the-road respectability, the excellent and more expensive *8000T* radio tuner, launched in 1993, gave pause for thought about Audiolab's direction and possible achievements.

If the *8000T* was a surprise, this brand new *8000PPA* is a downright improbability. It's a standalone amplifier phono stage whose only task is to receive, boost and equalise the output of vinyl disc cartridges, and feed a flat line level stereo signal to a preamp's line input. This isn't just a little gadget to clutter up the shelves of those who refuse to fall in and buy CDs. It's at least the size and weight of an *8000A*, and sells for a startlingly upmarket £800.



Mad idealism or a sane business venture? For the *8oooPPA*, only time will tell.

And this is 1994, several years after vinyl discs were supposed to be comfortably dead and buried. So what does Audiolab think it's up to?

Idealism is part of the motivation. This is intended to be the definitive phono stage, according to Audiolab. It's as fully featured as any such device could be, with two separate inputs which can be configured very precisely to match any MM or MC cartridge, and is crammed with high class components. Not in the signal path, I'm assured, since this is kept deliberately simple, but in all the good housekeeping required to support a decidedly radical circuit configuration.

These days, innovatory analogue circuit designs are rarer than new digital recording formats. This one is certainly unusual — possibly unique — in direct coupling the signal path throughout. It's all done by means of DC servo circuits with complex micro-processor controlled time constants to keep everything stable and under control.

The *PPA* also represents a toe-in-the-water for this new approach. A line-level preamplifier is well on the way, and other relatively high-end Audiolabs may follow in due course.

Direct coupling should promise superior bass performance, and in this respect the *PPA* is unlike anything I've heard in recent memory. It delivers extraordinary slam and drive with prodigious extension and consummate control. There were two immediate repercussions. The first was to start digging out all my killer bass albums and become well and truly impressed. The second was to wind the volume up to near clip levels and enjoy the lack of strain, the oodles of detail, and a remarkable opening up of the soundstage.

It has always seemed strange that my box-less (flush wall-mounted Tannoy dual-concentric drivers) speakers still had a modest residual 'boxy' coloration. When I substituted the *8000PPA* for my regular (Naim) phono stage, the boxy character seemed considerably reduced, and the image became altogether bigger, wider and more disembodied.

Which doesn't mean I'm going to urge everyone to rush out and buy the Audiolab. Like any product with state-of-the-art pretentions, this is very much a listen-before-you-buy proposition, and I'm certainly not guaranteeing it will appeal to all tastes or systems. Although it only took a couple of minutes to figure out what I did like about the *PPA*, it took until the third day to figure out what was also leaving me uneasy.

The sound is a little too unruffled and over-controlled, through the mid and treble especially. With hindsight, one reason I'd been playing it so loud was to compensate for the lack of real bite and drama.

Simply for its services in expanding the vinyl disc's horizons, the *8000PPA* deserves a medal, and is destined to pick up review accolades worldwide. But like any seriously good hi-fi component, it all comes down to the art of compromise in the end — specifically how well the balancing act adopted here blends in with the other components of a serious system, and the tastes of the listener.

I can't see the horn'n'triode league going a bundle on it, nor the Linn/Naim set for that matter, but those seeking stunning out-of-the-box stereophony and exceptionally low coloration should bend an ear in this direction.

Most tellingly, the *PPA* has a distinctly CD-like quality. Which is both good and bad, as CD fans regard the medium's sonic strengths as no less important than its convenience. This Audiolab may not remotely control your record playing, but it can still make your vinyl sound better than your CDs, while achieving a unusual consistency of character between the two.

The highest fidelity. Naturally.

HD 580
Top of the range dynamic headphone using new duofoil diaphragm which virtually eliminates sound colouration.

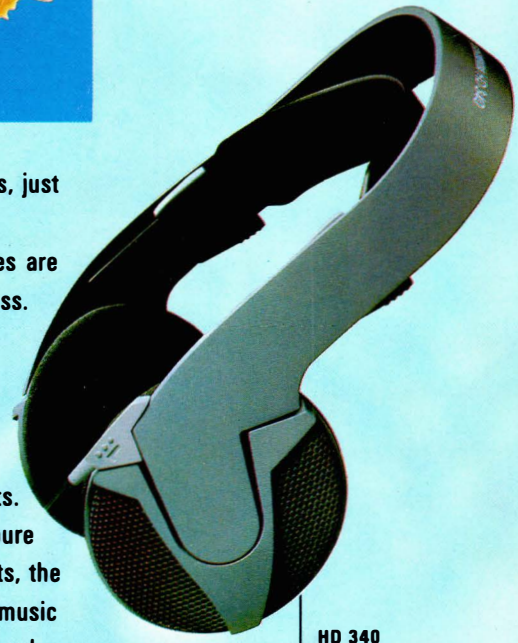


HD 320
Part of the new generation of dynamic hi-fi stereo headphones, the HD 320 has ergonomic styling with a sound quality that is designed to optimise transparency and clarity, whilst ensuring a strong bass definition.





Immerse yourself in the music. No distractions, just pure sound reproduction.
It's no coincidence that Sennheiser headphones are acclaimed again and again in the hi-fi press.
We set new standards of sound reproduction and quality at the leading edge of acoustic technology. Supremely comfortable and near-unbreakable, the headphones are specially designed for easy replacement of parts.
With accurate, detailed response and rich pure tone, recreate the eloquence of the instruments, the vitality of the vocals. Whatever your taste in music you'll appreciate the transparent natural sound quality, balanced by a wide dynamic range.
Now prove it. Try out our headphones for yourself. You'll be convinced. Naturally.



HD 560 II
"A detailed and open headphone with the ability to recreate the power and depth in a piece of music."
Hi-Fi Choice Oct 91.



HD 340
A headphone which produces a roomy and detailed sound whilst incorporating high quality in its design making it lightweight and comfortable to wear.

SENNHEISER

Sennheiser UK Ltd, Freepost, Loudwater, High Wycombe, Buckinghamshire, HP10 8BR. Telephone 0628 850811. Fax 0628 850958

MISSION



The European Loudspeaker System of the Year